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Hudson

J. Sterling Morton, Secretary of Agri-culture during the second Cleveland ad-ministration, died Monday, April 27. At the time of his death he was at the resi-dence of his son, Mark Morton, in Lake Forest, near Chicago. His illness dated from last November, when he contracted from last November when he contracted ast November, when he contracted re cold while speaking at the Chi-

When two feet high it contains three times as much fats, and only two-thirds as much fats, and only two-thirds as much fibre or woody material as it does when it has attained its growth and formed seeds.

Young sorghum is an almost perfect stock food, since it contains flesh-forming materials and fat-forming materials in the ratio of 1 to 7.

When nearly metric this ratio fats.

our last year's ruined planting, supple-mented by a goodly lot of fine ones from a far away nursery, and, as we do not exar ar away nursery, and, as we do not expect any berries this year, we will not so much miss the cream we shall have to do without. So you see "everything works together" for the good of the hopeful Ozark farmer if conditions are favorable.

were and use the second of the Figure 1. The contract of the state of the s



## The Dairy

Prof. C. H. Eckles, professor of Dairy souri Agricultural ollege, is vigorously pushing the dairy evelopment work that was provided for development work that was provided for in the legislative act creating the Chair of Dairy Husbandry in the college. One means to the end sought is the holding of local dairy meetings in the various sections of the state where there is a growing dairy interest. Two such meetings were held recently—one at Winfield, in Lincoin county, April 18, and one on the following day at Orchard Farm in St. Charles county, both on the Burlington Route, 59 and 39 miles, respectively, out from St. Louis.

At these and other Burlington stations as far up as La Grange, 159 miles from St.

At these and other Burlington stations as far up as La Grange, 150 miles from St. Louis, there is considerable interest being taken in the business of producing milk for the St. Louis market. The industry is of only a few years' growth, but it has been looked after so carefully and persistently by Mr. D. H. Kennett, general traveling agent, that it already yields the railroad company quite a sum in revenue railroad company quite a sum in revenue for hauling milk to St. Louis. But the

farmers in this territory should be in-formed of and bear in mind. At present Louis is produced within the limits of the city from cows (about 8,000 of them) fed argely on the waste product of the brewand distilleries. The conditions un der which these cows are kept are for the most part very unsanitary and are a menace to the public health, both as to the quarters in which the cows are kept and the milk product. The health officers of the city are and for years have been anxious to abolish these so-called "city" or "swill dairies;" and public opinion is, we think, becoming educated up to the point when it will soon be possible to rid our city of what is not only a menace, but a disgrace to civilization. Of course, this would mean a very considerable increase in the demand for "railroad milk."

So our readers can see that the production of milk for the St. Louis market, while a good business now, under proper management, promises to be far better in the near future; and so we suggest to those who are within shipping distance of the city—say within 100 miles—that they give the business careful consideration and see if it will not be to their advantage to prepare for dairying, if not allmost part very unsanitary and are a men-ice to the public health, both as to the

tage to prepare for dairying, if not aleady engaged in it.

As we remarked, the production of milk a good business if carried on under management. It requires applicaion and intelligence, perhaps to a greater degree than any other line of farming, but with this application and intelligence it is can be made prof-

also one of the most profitable.

How milk production can be made profitable was the theme of the meetings referred to in the beginning of this article, but we must defer a report of the discussions until a later issue.

## THE SCHMIDT TREATMENT FOR

No cow ailment is more dreaded by own ers of deep-milking cows than milk fever, because of the greater liability of the best cows in the herd to its attack, the rapidity with which it progresses and the large rtion of fatal cases.

The Schmidt treatment, developed by a Danish veterinarian of that name, has, however, proven quite successful; and while we have published it previously, it we have published to the weak of the lodder a second of the iodide of potash to neutral the poison and to lessen the activity the udder. This in a majority of cases as been followed by speedy recovery, the method is to wash the udder and teats and the hands of the operator in warm water and soap to thoroughly cleanse them. Then wash, especially orifice of teat, with a 5 per cent watery solution of creolin or carbolic acid. Two or three drams of iodide of potash, depending on the size of the cow, are dissolved in one quart of clear boiled water, or, better, distilled water. This solution is infused into the udder by means of a small funnel, to which is attached one end of a rubber tube of sufficient length and one-eighth inch in diameter; the other and one-eighth inch in diameter; the other larger and one in the southwest sections. A curing station at Camean, so twelve have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on its own account along that line? We have two important cheese making interest do something on the northwest section and one at Clinton would be conveniently located for those in the southwestern part of the state.

The proper curing of cheese is one of the proper curing of che

growth.

It affects the glands, the mucous membranes, tissues and bones; causes bunches in the neck, catarrhal troubles,

and Pills

er end of the rubber is attached to an FIVE HUNDRED DOLLARS PER TON ordinary milk tube. Before using the fun-Prof. E. H. Farrington of the Wiscons n Dairy School, which is probably the one most largely attended of all the dairy schools in the country, says that every one of their last winter's dairy students who can make cheese is engaged, and still they are receiving requests nearly every day for cheese makers. When the Dairy School lately established in the Missouri Agricultural College is prepared to turn out expert butter and cheese makers and dairy farm managers, it will be prepared to give many opportunities to Missouri farm boys along agricultural lines, as is the case now in Wisconsin and Developing The ar end of the rubber is attached to an ordinary milk tube. Before using the fun-tel, rubber and tube must be sterilized by lacing them in cold water and bringing a boil. Milk each teat carefully so as a remove all milk from the udder, and The catheter, guarded by the index ger, is passed along the floor of the gina, where we find a small opening out 4 inches from the vulva, which leads the bladder of the animal.

## WHY BUTTER IS RELISHED.

WHY BUTTER IS RELISHED.

In fighting for laws that will compel makers of and dealers in oleomargarine to put the counterfeit product on the market in its own name and guise, the champions of the genuine article are often confronted with the assertion that oleomargarine is just as good, just as muritious, just as wholesome, just as pelatable as is butter, and is, in fact, chemically, the same as butter. A writer in "The Vegetarian" shows clearly the falsity of such assertions by the following:

"It will first be well to make clear the difference between butters and other fats.

difference between butters and other fats. The fats (butters) which are obtained from the secretions of the mammary glands of most animals are materially d fferent in composition from those which cur in the adipose tissue, and it is in this difference chiefly that the superiority railroad company quite a sum in revenue for hauling milk to St. Louis. But the amount of milk brought to the city over this line now is small compared with what it will be in a few years, if the farmers along the line "catch on" to the opportunity that is at their hand. We hope soon to be able to speak of the "Burlington Milk Train," a train devoted entirely to the hauling of milk from within 160 miles of St. Louis to our city.

The demand for good milk is rapidly growing here. The permanent population of the city is growing rapidly, and this will be greatly augmented during the next two or three years by the transient population incident to the World's Fair, all of which will have to be supplied with milk from the territory configurate St. Louis. of butters over animal fat lies, for the but sification and its occlusion by the villi in the small intestines. Fats are also partly saponified by the pancreatic juice, and here again butter fat is much superior to any other, as being far more easily de-composed. So it is evident that, partly owing to its peculiar physical condition and partly because its chemical constitu and partly because its chemical constitu-tion renders it more easy of digestion than any other fat, where fat is required to re-tain the temperature of the body—as it is in considerable quantity in all the temper-ate climates—butter fat holds, par excel-lence, the first place."

## A REVOLUTION IS UNDER WAY.

that the centrifugal cream separator of farm size was rapidly becoming an important factor in the dairy business. In fact, it looks as though the butter business would soon be on practically a hand separator basis. Prof. E. W. Curtis of Kansas, instructor in dairying in the Kansas Dairy School, said recently that "the as Dairy School, said recently that "the rapidity with which many of our creamry companies are changing from the fac-ory and skimming-station system to the tory and skimming-station system to the hand separator, is astonishing. It is estimated that there are twenty companies in St. Paul and Minneapolis buying hand. separator cream. Sioux City, lowa, has a large company; Omaha and Council Bluffs, half a dozen companies; St. Joseph and Leavenworth, one each. In our own state the Continental Creamery Company is buying considerable hand-separator cream, and a number of prominent creameries are adopting the system. In lowa there are scores of such concerns, and the sales of hand separators in Iowa last year by the various companies, arebe wheat is used for solling it is cut that the sales of hand separators in Iowa last year by the various companies, arebe. last year by the various companies, are be-ing estimated at all the way from five thousand to ten thousand machines. One mpany in Nebraska sold last year alone e thousand hand-separators. Within a ew weeks the Elgin Butter Company of Elgin, Ill., one of the largest creamery oanies in that state, has commenced aying hand-separator cream.

## CHEESE CURING STATIONS

The dominion government is getting ready to build a cheese curing station at Brockville, one of the four points selected for that purpose, says the "Canadian Grocer." It is to be located near the railway station, on property owned by the Grand Trunk Railway, and work on it is being immediately commenced. It will be a two-story building, 45x86 feet, built after the style of the ordinary cheese factory cur

It affects the glands, the mucous membranes, tissues and bones; causes bunches in the neck, catarrhal troubles, rickets, inflamed eyelids, sore ears, cutaneous eruptions, etc.

"I suffered from scrofula, the disease atfecting the glands of my neck. I did everything I was told to do to eradicate it, but without success. I then began taking Hood's Sarsaparilla, and the swelling in my neck entirely disappeared and my skin resumed a smooth, bealthy appearance. The cure was complete." Miss Anita Mitchell, 915 Scott St., Covington, Ky.

Hood's Sarsaparilla

Eckles of the Missouri Dairy School, on the suggestion.

the suggestion.

Did any man ever succeed in kicking

In no other farm product is there so much labor, intelligence, skill and value compressed as in butter, and withal, no other farm product takes from the farm so little of the soil fertility, or affords so good an opportunity to enrich the farm. Again, well made, highly-flavored butter is not only one of the most delictous and healthful of food products, but, cons derealthful of food products, but, cons de ing its disestibility, lack of waste, economy in serving (no cooking required) and high nutritive value, it is one of the cheap articles of food.

It is with such facts in RURAL WORLD has persistently urged upon its readers the profitableness of dai-rying as a line of farming, and upon statesmen, state and national, the import-

"This statement as to the value of but-terfat ought to stir up both the cream-erymen and their patrons to a better un-derstanding of the values found in milk. In addition to the butterfat it has be-come a well accepted fact that skim milk for feeding purposes is worth one-half as for feeding purposes is worth one-half as much per pound as oats or corn, and as they are worth now about \$1.00 per hundred, sk'm milk is worth 50c per hundred. The figures as to the value of skim milk read something like this: When corn li worth 30c per bushel, skim milk is worth

worth 30c per bushel, skim milk is worth 25c per hundred pounds; when corn is worth 50c per bushel, skim milk is worth 50c per hundred pounds.

"Now when corn and oats fed to growing animals will produce practically as much muscle and fat as will butterfat, why should the farmer or even the creamerymen encourage the use of butterfat at \$500 per ton, when oats or corn can be supplied and do equally as well, producing as much growth, in connection with skim milk, when oats and corn are only worth \$20 per ton as compared with butterfat at \$500 per ton.

"The creameryman should place before his patrons these facts in such form and

his patrons these facts in such form and shape as will make them thoroughly un-derstand, he will find his profit increased n the amount of cream received at his

articularly to the gathered cream hand parator plan and should be fully set

statistics before your patrons, and en-courage them to produce cream and feed the skim milk to their calves instead of allowing the calves to do the milking and grow on \$500 per ton feed rather than \$20 per ton feed?"

meeting. He said in part that comparing forage crops on the ton basis is erroneous, as frequently a crop of medium tonnage will show more actual feeding value than one of much heavier tonnage. At the New Jersey station farm their first solining crop in spring is rye, sown thickly to get more stalks and leaves. They begin cutting rye just before it shows heads, and feed for eight to ten days. The rye season can be somewhat extended by making early, medium and late sowings, they having fed rye for twenty-one days by this plan. Rye and wheat for solling is top dressed with manure or nitrogenous fertilizer. forage crops on the ton basis is erroneous

falfa they use pienty of seed, have land rich and well prepared and mow off weeds till alfalfa is well established. They have cut twenty-six and one-half tons green alfalfa an acre in a year.

When wheat is used for soiling it is cut just before the blossems are falling, as wheat hardens even more rapidly than rye. Wheat for soiling is seeding thickly also, making more and better feed than as sown for grain.

Their next soiling crop is crimson clover, the cheapest they grow, as it is usually grown as a catch crop with corn, and its long feeding season makes it es-

for eighteen or twenty days. Fo'lowing crimson clover they use red clover and

the sediments from cream separators is very rich in disease producing ge:ms, and specially the germs of tuberculosis. For this reason it is important that the deposit collects on the ins'de of the separator bowl should be destroyed by burn-

"The Separator"

A LESSON TO FARMERS.

a lesson for the farmer in the

ceess of the anti-oleomargarine legisla-n in this congress, says the St. Paul lobe." The moral is: Organized the mer can have anything he wants. his piece of legislation is one of the y few—if not the only one—devised in and lumber men-in fact of everything imaginable except the tiller of the soil.

There is one thing the farmer does get, a congress, and that is the "two-handed olly." He is the subject of many an elouent speech and glittering tribute. Not you the civil was vetage as we have en the civil war veteran can vie with him in the reverence he inspires. You may search the voluminous congressional recsearch the voluminous congressional recording to the gathered cream hand-separator plan and should be fully set ort to all the patrons of the creamery, who are utilizing hand separators instead of continuing the whole milk plan. The twerage price for butterfat for the past rear has been about 18c. This year; it will be three or four cents more, or 25c possibly, making the butterfat worth, as we tated at the head of the article, \$500 per on.

"Why not place these figures or these tatistics before your patrons, and encourage them to produce cream and feed he skim milk to their calves instead of tillowing the calves to do the milking and grow on \$500 per ton feed?"

SOILING DAIRY CATTLE.

This was the topic of Dr. Voorhees of New Jersey at the Pennsylvania dairy neeting. He said in part that comparing orage crops on the ton basts is erroneous, is frequently a crop of medium tonnage, will show more actual feeding value than me of much heavier tonnage. At the New Jersey station farm their first soling crop in spring is rye, sown thickly begin meting roup in spring is rye, sown thickly begin meting roup in the price of the shows had to relate, there are no tariffs for his pumpkins, duties for his corn, subsidies for ord from cover to cover and find not one d'sparaging word from either party or

club over congress—because had the farmer back of him—the farmer or organized. It is a long time since any bill has had as merry a course through congress as this one. Senators and representatives have begged for the privilege of helping to pass it; they have pleaded to have their names associated with it. There was a race between two members to see which could get it introduced first at this session, and Tawney and McCleary of Minnesota—both with an eye on the senate—between two members to see which the bill through the house of representatives. There is no one clamoring to take the bill through the house of representatives. There is no one clamoring to take the bill through the house of representatives. There is no one clamoring to take the bill through the house of representatives. There is no one clamoring to take the bill through the house of representatives and the parts that builds up the tissue is known as protein the portain sequence of the shipping subsidy bill—or even the bill reducing the duty on Cuban sugar. No. The anti-olog law was a bit of legislation distinctly in the interest of the cow owning farmer. It is intended to save him in one of the important departments of his farm industry, from dangerous competition. It is not often the farmer invokes the aid of special legislation; and in this instance he has only done it in self-defense, and in the face of a situation which appeared desperate. the face of a situation which appeared

STARTED A BACKFIRE.-The farmer STARTED A BACKFIRE.—The tarmer did what is known as "starting a backfire." It is like putting the whip to a horse. Spirited members often kick and rear under the lash; but they generally conclude to get into the trace and draw. Just the other day Senator Hanna got a

## FEEDING SKIM MILK.

are much sooner made sick with bad milk than are pigs. If the milk is clean and does not hurt, but dirty and putrid milk is death to calves.

Many excellent articles are just nov appearing in our dairy papers the great value of the separat milk for feeding purposes. All authorities claim that it is just

They all have their associations, organi- 40 per cent of the 308,000 cows in South zations, and paid lawyers and lobbies, and Carolina and Georgia do not give enough

They all have their associations, organizations, and paid lawyers and lobbles, and they look to get special laws which will do them good. And they get them. There is a force in lobbles and organizations. A small organization, as against a large disorganization is effective; and legislators in a great republic move along the lines of least resistance. They are representatives; and they represent the people who are most clamorous to be represented. They spread their sails to public opinion and are always striving to do what will net them the most votes. Congress is a representative sails to public opinion and are always striving to do what will net them the most votes. Congress is a representative body—representative of "interests."

HATS OFF TO ORGANIZATION.—What the "interests" lack in votes they make up in money; on occasion they will "open a barrel" and pay campaign expenses. But it is mainly by organization they accompl'sh what they want. Always the politician, the congressman, will take his hat off to an organization. The organization but they are politician, the congressman, will take in the first of the point of the politician, the congressman, will take in congress what they get when they get in congress, and that is the "two-handed jolly." He is the aubject of many an ele
They get is the side the "two-handed jolly." He is the aubject of many an ele-

"Granting that a good herd has been established the next thing to take into consideration would be the feeding. The United States Department of Agriculture estimates that there are something over two hundred different kinds of grasses in the South, a large number of which are available for grazing. Good grasing must be provided if the dairyman expects to produce his milk and butter at small cost

## FORAGE FOR COWS

"Which is best for winter forage for milch cows, fodder corn or oat hay? We will be milking about 35 cows next winter and will have to depend mostly on roughage other than hay," states a correspondent in "Farm, Stock and Home," to which Prof. T. L. Haecker replies as follows: Ans.—While oat hay is a most excellent. story builtiding, 45x89 feet, built after the style of the ordinary cheese factory curing rooms. Special facilities for leng and so on its own account along that line? We and three-fifths tons an acre after one fits own account along that line? We and one in the southwest and one in the southwest agent and servers out a story a during station, as it camery.

Tere of the ordinary cheese factory curing rooms. Special facilities for leng and subject of the next crop. Cow peas are a subjustle of the next like the sout of the partition of the weeks they began to gain in weight, be

Caives for veal may be started on whole milk, gradually shifted to skim milk, and finally finished off with whole milk for a week or ten days, to give them a smooth appearance and improve their sca\*. In a number of careful trials reported, calves gained one pound in weight from 10 to 15 pounds of skim milk.

Calves for beef stock can be profitably raised on a diet largely of skim milk but should be taught to eat hay and grain as soon as possible. Helfers for dairy purposes should grow in a thrifty way, but should not get fat; for these skim milk is the best food of all until they are a year old, wheat, bran and middlings being added as soon as they will eat them. In feeding milk calves, especially young one, over feeding must be guarded against, and the milk can be used to the best advantage when fresh from the separator, and warm, as already described.

If skim milk from a creamery is used, if skim milk from a creamery is used.

It is of no use to get better cows, new apparatus and better rations unless the skill in manufacture is brought up correspondingly.

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## Machines In Use.

Ten Times All Other Makes Combined.

The Standard of All That's Best in Dairying in Every Country in the World.

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CURVE of LONG LIFE AMERICAN THELD FENCE AMERICAN STEEL AND WIRE CO. Chicago, New York, San Francisco,

HORTICULTURAL TALK.

GRAFTING.—Now is the time to top-graft and graft grape vines. For top-timplest and easiest method. Remove the imb where graft is wanted, cut the bark a one side of the stock; shape the cion to e side about one inch in length, so the time to top-time to the time to the time to top-time to the time to top-time to the time to top-time to the time to the time to the time to top-time to the time to top-t he cut will come out at the opposite and just at the base of cion. Push hon down under the bark with cut h, wrap with twine, wax, and all is ete. In this way a skillful man can a good many hundred grafts in one

ow straight up, and bear some of its uit too high to reach. Such trees I cut wherever a limb is removed, put in cions of new varieties which I wish to test. In this way I keep my trees down and at the same time will find out at an early date which of the new pears are desirable or otherwise. By this practice there is less tax on the tree than there would be if the limbs were simply removed, as the wounds are all sealed up with wax and there is not such a shock to the tree. Grafts put in a year ago in this way are looking fine now, some of this way are looking fine now, some of them showing fruit buds.

ABOUT PECANS.—I have had considerable correspondence lately with a pecan specialist, Mr. T. Bechtel of Mississippi, and recently sent him some nuts for experimental purposes. He has been very successful in grafting the pecan, and offers to send me next fall for tria; a gratted tree of all the leading varieties, that they may be more fully tested in this late. may be more fully tested in this lat-

ARRANGING THE BERRY PATCH.setting a new patch of berries, consist-of many varieties, I arrange it so that

put them out without checking them by the shift, but the root binding has a ten-



## Horticulture Let Me Tell You How to Get Well

started in this way to good advantage. Some beets were sown in an early hotbed; they are now blooming in the garden and doing well. We look for earlier pears than we have ever had.

The garden is beginning to loom up with its lettuce, cabbage, cauliflower, beets, endive, peas, etc.; all removed there

from the hotbed.

The prospect for a good living this year at our ranch is very gratifying, even though that be all we get out of the struggle.

EDWIN H. RIEHL.

North Alton, Ill., April 21, 1902.

SOME QUESTIONS ASKED.

Editor RURAL WORLD: One asks "Will raspberries and blackberries mix if the different varieties are planted close together?" Two or more varieties of black cap raspberries planted close toclass should not come alongside of each other, with a view to prevent plants mixing. For instance, I would plant a row of one or more varieties of red raspberries, the next row would be a blackcap, or blackberry, then a row of another red aspberry, etc.

With strawberries I prefer to set so as o have several short pleces of a variety at one end of patch, to one long row of ther kinds on either side.

riety and make plants.

The blackberry is propagated from the blackberries and find them in excellent condition. I am considerably behind my neighbors in this work, being afrad of late frosts.

In removing straw care was taken to take off just enough to let the plants through, leaving considerable close around the plants to keep down weeds and retain moisture. I consider it just as important to keep the bearing bed free from weeds as the new bed. In this respect I differ from some of my neighbors, whose berry patches at picking time look more like weed patches than anything else.

On taking up the fruit and nut seed which was buried all winter all was found in good condition excepting some of the pear seed, some of which was rotten, owing to poor drainage. Chestnuts and English walnuts were sprouting. Pecan and hickory nuts were beginning to crack. Appie seed was plump and sound.

VEGETABLES.—I tried a good many of these in pots is not only that of be ng able to put them out without checking them by

ones picked from vines on bare ground. Why do peach trees live in fence cor-

strawberries, Downing in gooseberries, Mammoth Cluster in raspberries and

a quality, and one of the hardiest we have;
a Lewis, new from Michigan, bore 7 specimens in 1900 and bore full last year-medium size, early and very high quality;
New Prolific, also from Michigan, bore a few very fine specimens, large, high-col;
ord, extra fine quality and very promising; we shall propagate this variety next as season; Triumph and Greensbough are both new varieties, very early and produce some very fine fruit; Evan's Cling, a seedling from Jackson county, is a large, ye'low red blush and a good commercial peach; Miller's Cling, large, yellow, one of the best peaches we have for canning purposes; Elberta, we have more trees of the variety than any other and nearly all of the trees bore well. We also have a number of other varieties. Think we had a fair showing considering that the trees had been planted only two years and three months.

Vegetables—The rhubarb and asparagus

solution of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil should interest every fruit grower. The influence of plant food in the soil bears a direct relation to leaf growth. An excess of nitrogen gives a heavy foliage and good growth, often at the expense of fruit. In fact, the best-fruit land is not the richest one by any means. Compared with the thin, poor clay soil of Iowa with the thin, poor clay so

on the most without checking them by the unique of making and the river with the strong that the most of the common of the commo

Goose in plums, Crescent Seedling in RELATION OF LEAVES TO PLANT In this co LIFE.

Mammoth Cluster in raspberries and far any one is looking for a regular job lasting the year around, plant & acres, by all means plant a part in fruit, and if any one is looking for a regular job lasting the year around, plant & acres in small fruit.—C. W. H., read before Missouri State Horticultural Society.

THE BUTTERFIELD EXPERIMENT STATION.

(Concluded from Last Issue.)

(Concluded from Last Issue.) test, it a month. If satisfied, the cost is \$5.50. If it fails, I will pay your druggiest myself.

I do just as I say. Over half a million people have secured my treatment in that way, and 30 ut of each 6 have paid for have paid on the season. Others didn't bear. Plums did not bear, accepted if it fails.

There are 30 chances in \$60 that I can teure you. No matter how difficulty you and healthy.

There are 30 chances in \$60 that I can teure you. No matter how difficulty you and healthy.

There are 30 chances in \$60 that I can teure you. No matter how difficulty you and healthy.

There are 30 chances in \$60 that I can teure you. No matter how difficulty you and healthy.

There are 30 chances which also make season with the season of th

trees had been planted only two years and three months.

Vegetables—The rhubarb and asparagus seem to be at home in this soil. Both come in early and are the easiest vegetables grown, and I consider the asparagus one of the healthiest vegetables that grows. Barr's Mammoth, White Mammoth and Palmetto, all do well here.

I will not go into details further on effective and divided and prostrate on this forcers or the intense heat of the past summer I observed that many rapid growing plants with a large leaf surface, such as pumpkin, cauliflowing the force of the past summer I observed that growing plants with a large leaf surface, such as pumpkin, cauliflowing the force of the moisture. When the air becomes very hot to moisture through these stomata faster than it can be pumped from the roots and wilting results. Under the intense of the pumped from the roots and wilting results. Under the intense of the pumped from the roots and wilting results. Under the intense of the pumped from the roots and wilting results. Under the air down the atmosphere were the atmosphere will be atmosphere to the atmosphere were the atmosphere will be atmosphere to the atmosphere t

moth and Palmetto, all do well here.

I will not go into details further on fruits and flowers at this time, however.

I would recommend every lover of flowers to plant a paper of Cosmos seed.

I will also add that I had anumber of varieties of cowpeas on trial, none of which did any good this year. The dwarf soy bean did fairly well. For every one that keeps a cow or a few chickens I would recommend sowing in the early fall at recommend sowing in the early fall at the plant perished. Others seemed to flowers a small patch of tye.

Burpee's Netted Gems, or Rocky Ford cantaloupes—We have grown three crops of this melon here in a small way. The first crop was a grand success and was profitable, netting probably at the rate of 100 per acre or more. The second crop was even more promising, never saw such a crop of melons set in all my life, but was even more promising, never saw such a crop of melons set in all my life, but which they were native seemed to a crop of melons set in all my life, but which the west experience, we do not hesitate to say that this could be made a very profitable industry, providing six or eight farrers would club together and plant farrers would club together and plan

out in carload lots. I have had the melons tested in St. Louis and they were pronounced to be almost equal to those grown in Rocky Ford in quality and ripen much earlier. We find they will yield 39 bushels to the acre and at the exceedingly low price of 50 cents per bushel they will pay \$160 per acre.

I hope another year to report on some garden vegetables, grain and grasses as well as other fruits.—M. Butterfield.

ripened for winter in a normal manner. In closing I desire to emphasize the important work which the leaf has to perform in furnishing us good fruit and hence the necessity of such a system of cultivation and spraying as will best protect the foliage. We should be close students of the leaf growth and take advantage of any favorable variations. tage of any favorable variations

CARE OF APPLE ORCHARDS.

ources of income. The renovation and funson in a recent bulletin of the Maine reast, the list operation, it the land does not need draining, is to prune thoroughly. This may be performed at any time from late fall until the middle of May. Care should be used to give the trees an open

way with if one decides to allow the tree o take its natural form rather than to trees all crotches should be avoided. If

or undes rable fruit may be top-grafted and converted into valuable sources of income. This is particularly true of seed most successful grafting is that which disturbs the tree least. Graft many and sufficient water supply to tide over a dry spell of months. On the under side of the leaves are few stomats, hence little is lost by evaporation.

The variation in the knee of the leaf is quite noticeable within some groups of plants. A variety of strawberry known as Captain Jack originated near my home in central Missouri. It possessed a fruit.

glected trees often need a preparatory pruning a year or two before grafting. The profit in fruit growing lies in securing an extra large amount of fruit of su perior quality. This can only be obtained by an additional supply of plant rood in excess of that demanded for the growth of the trees. In general a liberal applica-tion of ground bone or phosphatic rock or of hardwood ashes will be found the most untirfactory fertilizing material. Stable by an additional supply of plant food in

## The Apiary

SPRING KEEPING OF REES

old enough for field bees, and all frame in the brood chamber filled with broo

much after that date are of but little use as field bees, unless we are favored by a fall flow from goldenrod and asters.

To get my queens to lay the most eggs before the above date, I manage as follows: When spring begins, or about the time soft maples bloom, I make a careful examination of each colony. All combs that are not covered with bees are either removed from the hive or placed outside of the division board. If they are short of honey a sealed comb should be added. Now place an enamel cloth directly over the frame, tack it down carefully, so that no heat can escape; put of the gover and ontract the entrance to suit the needs of

honey they must be fed a very thin syrup. For feed I use two parts water to one of sugar, and feed about a half pint every evening in the Doolittle division board feeder, unless the colony is quite

In 10 days I again examine each colony.
At this time the frames are spread from
the center, as before. The central frames,
which will contain mostly sealed brood, are moved to the outside, and the outs frames placed in the center of the clust and enlarges the brood nest, as the seson advances, by placing combs of honey or empty combs in the center of the broad chamber, we put the brood nest in an unnatural condition, and the queen fills the comb with eggs. Thus we get more eggs la'd than we would if we left the bees to manage themselves.

la'd than we would if we left the bees to manage themselves.

These operations should be repeated up to the time that the honey flow begins. Just before putting on the supers I go through the brood chamber again. At this time the frames that contain the most eggs and unsealed brood are placed next the sides of the hive, and the frames that contain the oldest brood are placed in the center. The reason for this operation 's, when a colony begins storing honey in the brood chamber, it is placed in the outs'de frames first.

By placing the eggs and youngest brood on the outside we put a stop to all possibility of the'r storing honey there, as it will take from 18 to 20 days for the brood in these frames to hatch. The oldest brood will hatch first, and it being in the center of the brood chamber, the queen will fill the cells with eggs just as fast as the young bees emerge from them. In this way the brood chamber is kept full of brood during the honey flow, which compels the bees to place the honey just.

While manipulating colonies as I have de cribed, all drone comb should be removed and replaced with that of the worker size because more workers can be raised in the same amount of space.—Jesse M. Donaldson before Worcester Co. (Mass.) Bee keepers' Association.

BEES AND HONEY.

shir. Doonttee, who is were known as au-thority in bee questions, to every one in-terested in beekeeping, names four colo-nies as the largest number a beginner in the business should start with, says the "Mass. Ploughman." If a success can be made with that number the natural increase will enlarge the aplary about as rapidly as the keeper gains in experience, so that he can care for them. If a failure results from one or four colonies the loss is not very large, and there are then two plans to choose from; to give it up entirely, or to begin again with the experience which has been bought and paid for. But to beg'n with a hundred colonies, bought where they could be picked up, is bought where they could be picked up, is this spring, being sure to have enough the spring, being sure to have enough to the mean and make arrangements at some bught where they could be picked up, is to invite defeat. Not only has the beekeeper his own lack of knowledge to contend against, but the dishonesty of other less colonies, or those that have been found to be notorious loafers never gathering much honey, for there are such in almost every apiary, or those which prefer to get their honey by robbing other colonies. By the way, among bees as a mong human beings, it usually requires only opportunity and temptation to range a loafer into a robber. Worse than all, in gathering many colonies from different parties there is always the chances of getting foul brood from some of them for beekeepers are not all honest. About the first of May is a good time to start in the business in this latitude, though if a hive is well filled with brood and has stores enough it may be safely purchased earlier. But at that time there is but lithive is well filled with brood and has stores enough it may be safely purchased earlier. But at that time there is but little danger of spring dwindling if there is a good queen with the colony.

Or perhaps a better way for the begin-

Corn removes from the soil large quantities of Potash. The fertilizer applied, must furnish enough Potash, or the land will lose its producing power. Read carefully our books on crops-sent free. GERMAN KALI WORKS, 33 Nassau St., New York.

FARMS.

UPT OUB FREE LIST of Farm Bargains. 8 H. Morton & Co., Gen. Land Agts. Agricult aral, Mineral, Coal and Timber Land. Office, 82 Lincoln Trust Building, 81 Louis.

FOR SALE. Several Farms at a bargain; botgeo. F. MEAD, Pinckneyville, Ill.

Real Estate Wanted where located) send description and cash price and get (FREE) my successful plan. W. M. OSTRAN-OER, North American Bldg., Philadelphia, Pa.

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Read "THE CORN BELT," a handse onthly paper, beautifully illustrated ontaining exact and truthful informa on about farm lands in the West

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SORCHUM SEED. ESSEX RAPE. GERMAN-SIRERIAN-MISSOURI MILLET, MUNGARIAN, etc.

D. I. BUSHNELL & CO., St. Louis.

## SEED CORN

Boone Co. White, Reid's Yellow Dent, Imp. Leaming; best tested seed \$1.50 per bushel; sacks free, delivered on car for any station in the United

J. C. ANDRAS, JR.,

## ALFALFA SEED The greatest drum a grower, 1991. Buy direct from a grower, and prices. D. R. GORDEN, Abilene, Kans.

RELIABLE Reliable—50 Bederwood, early; rfield, medium; 50 Brandywine, le v Reliable—12 Ruby, 12 Senator D 12 Nettle, All for \$2.00 by expre

## Edwin H. Riehl,

TOBACCO. C. D. LYON,

HICCINSPORT, Blue Vitriol, Carbonate of Copper, Paris Green, Lon-

don Purple, Oil Soap, For Spraying Purposes for Sale

WHITELAW BROS., ST. LOUIS.





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FE lasts a sticity. CE rrite to

E. Bull-Chickent Wholesale ttalog Fros.
E CO. S. A.



DATE CLAIMS FOR LIVE STOCK

May 7-8-Colin Cameron, Herefords, Kanas City. ne 19—C. E. McLane, Danville, Ind., at ndianapolis., Double Standard Polled

Durhams.
The "National Hereford Exchange,"
under the management of T. F. B. Sotham, as follows:
May 27-29, 1902.—Omahs.
DOLAND, CHINAS.

POLAND-CHINAS.

Oct. 20.-E. E. Axline, at Oak Grove, Mo. BERKSHIRES. BERKSHIRES.

Aug. 6.—A. J. Lovejoy & Son, Roscoe, Ill.

ABERDEEN-ANGUS CATTLE.

June 10-11—Combination sale, W. C. McGavock, Manager, Chicago.

Aug. 6, 1962—Berkshires; A. J. Lovejoy &
Son, Roscoe, Ill.

Aug. 8, 1962—combination sale, Kansas
City, Mo.

City, Mo. Sept. 17, 1902.—Combination State Fair sale, Indianapolis, Ind.
Oct. 1, 1902.—Combination State Fair sale,

Oct. 22-23, 1902.—Combination Hog Show sale, Kansas City, Mo.

Nov. 6, 1902.—Combination sale, East St. Louis, III.; Manager, C. H. C. Anderson,

Louis, Ill.; Manager, C. H. C. Anderson, Carlinsville, Ill.

NATIONAL SHORTHORN SHOWS
AND SALES.

May 9.—Boone County Shorthorn Breed-ers' Assocatiton at Columbia, Mo.
May 9.—At Columbia, Mo., Boone County Shorthorn Breeders' Association.

May 14-At Kansas City, Mo.; W. T. and H. R. Clay, Plattsburg, Mo.

15.-Combination Shorthorn licothe, Mo.

as City, Mo. 22, 1902—Geo. W. Jessup, Rock-Ind.; Charles F. Mills, Clerk,

ville, Ind.; Charles F. Mills, Clerk, Springfield, Ill.
Oct. 31.—J. C. Hall, Hallsville, Mo., sale at Centralla, Mo.
Nov. 11.—J. J. Littrell, E. S. Stewart, Dr.
J. F. Keith and J. H. Cottingham, at Sturgeon, Mo.
Dec. 3, 1992—Combination sale Berkshires, Manager A. J. Lovejoy, Roscoe, Ill.; Clerk, Charles F. Mills, Springfield, Ill.

Clerk, Charles F. Mills, Springneid, III.

MESSRS. W. T. & H. R. CLAY, of Plattsburg, Mo., will sell at Kansas City, Mo., on May 14th one of the choicest consignments of Shorthorns that will go under the hammer this year. These have been two of the leading herds of the west for years, and they comprise the best of Scotch and Scotch-topped families in existence, and if you want a red Shorthorn, either bull, cow or heifer, here is a good sale to attend, for they will have them there and Mr. W. T. Clay disperses of his there. Mr. W. T. Clay disperses of his of his best. Send to Messrs. Clay, Plattsburg, Mo., for catalog, which gives full particulars, and then don't miss attending the sale.

## THE LIVE STOCK MOVEMENTS.

For the first quarter of 1900 the receipts kinds of stock at the five leading ts of the interior were 7,412,703 head; markets of the interior were 7,412,703 head; for the first quarter of 1901 the receipts totaled 7,645,572 head, and for 1902 totaled 7,831,882 head. The greatest percentage of gain among the five classes of stock was made in the receipts of calves.

A comparison of rebelpts, shipments and consumption of calves brings to light the fact that the primary markets are cutting deeper than usual into the younger classes of stock on the western farms, and other areas of supply.

other areas of supply.

The average weight of hogs at Chicago was six pounds less than during March, 1961; at St. Joseph, 8 pounds less; at Omaha, 12 pounds less, and at Kansas City, 19

The car load receipts of stock generally

the corresponding figure was 94,983 cars, and for 1902, 127,219 cars. There is, there-

## Garget Cure

ANGUS AT KANSAS CITY NEXT

Among the sires of demonstrated excellence that will be sold at the Angus sale at Kansas City May 6 is Fraire View Raven. He is consigned by H. H. Anderson of Laredo, Mo., who has used him on his herd successfully for several years, and parts with him on account of so many of his females being related to him. He is the sire of Alpha Bob Lee, a prize winner at the International Expostion of 1900 and sold there to W. A. McHenry of Iowa for \$800. Prairie View Raven is sired by Black Knight of Estill 3d, a brother of Blackbird of Woodlans 4th that sold for \$2,000 at the Estill dispersion in 1900. The dam of Prairie View Raven is a grand-daughter of the Pride bull Kabul, descending maternally from the Dianas of Morlich, a family bred along the same the sires of demonstrated ex Morlich, a family bred along the same lines as that branch of the Queen Mothers to which belong the famous Gay Lad and

ancia Estili.
The bargains at recent Angus sales have een in the bulls, whose get should have endered them invaluable, and Prairie iew Raven at six years old, guaranteed a every respect, will likely prove no expetion and intending purchasers should so in hand when this high class sire, is

sold. Mr. Anderson also consigns a yearling bull called Hubert Anderson, sired by
the Queen Mother, Bismarck of Edgewood, from a dam by Prairle View Raven.
He fia a thick, even, stylish youngster.
Capt. O. A. Bridgford of Joy, Ill., consigns for the first time to a public auction
ring the get of his splendid sire and show
buil Honesty's Abactor. They are of superb Angus type and quality and are from
Westertown Rose, Georgina, Mina and
Victoria dams. They are a good, strong,
useful bunch and should not lack for buyers at Kansas City, or anywhere that
good cattle are bred. good cattle are bred.

No Angus breeder has contributed seven

No Angus breeder has contributed seven better bred buils than W. W. Massie will send from his herd at Paris, Ky. The individuality of the offering is, we understand, of the very best. Erica Improver is sired by Proud Aberdeen from the same branch of the celebrated Pride family as imported Prince Ito, the Highland Society champion and highest priced buil of the beef breeds, sold at auction within the past twenty years. The dam of Erica Improver is an Erica by the great Pride sire Polar Star, and his second dam is the superior cow Etta Estill by the celebrated Blackbird buil Bushranger Eon of Paris, another Massie entry, is a full brother to Erica Improver. Pride of Paris is one of the best bred Prides ever offered. He is also by Proud Aberdeen, a double Pride buil and out of Polaria, a double Pride buil and out of Polaria, a double Pride buil and out of Polaria, a double Pride cow. Each of his four grandparents are Prides and represent the blood of each branch of the Pride family imported to America. Mr. Massie also includes other highly bred Erica, Queen Mothers and Heroines sired by Proud Aberdeen. No family of Angus cattle is in higher favor and justly so, than is the Westertown better bred bulls than W. W. Massie will and justly so, than is the Westertown Rose and in the two-year-old heifer Mel-

J. D. Blackwell, Fayette, Mo., offers one that should prove exceedingly attractive. She is sired by Dehart, a son of Polar Star and her dam, Beauty of Rougemont 2d, is oy Fayette of Estill, a son of Abattoir (a brother to Abbottsford and Abactor), and her second dam, Beauty of Rougemont, is a daughter of Judge, "the world beater." There are many useful well bred cattle in this sale, and as it is the only opportunity of the season to secure pure bred "doddies" at Kansas City, intending purchasers should avail themselves of it. See advertisement on this page. J. D. Blackwell, Fayette, Mo., offers this page.

## THE CAMERON SALE.

erefords come to the sale, study the cat le critically and judge for themselves Tese cattle have been on the range and n consequence, many of them are small nd all, except the calves, are branded For these reasons they will sell at half the price of eastern raised Herefords of no better value as breeders. The chear ss of price is one reason for buying the f they are not equal to the best as breed rs. The best is the cheapest. If they ar e best the price is a very strong re 31 of this year Chicago received 75,81 cars of stock, and 69,563 for the corresponding quarter of the preceding year, showing a gain of 6,261 cars, indicating that the Chicago supply is being kept up by the central west and northwest.

Traffic in live stock, compared for the first quarter of three successive years, showed that for the first quarter of three successive years, showed that for the first quarter of three successive years, showed that for the first quarter of three successive years, showed that for the first quarter of three successive years, and for 1902, 127,219 cars.

There is a successive to see the cattle that produce the best calves. The calves will be ine evidence. Catalogs will be sent upon application to C. R. Thomas, 25 West Twelfth Street, Kansas City, Mc.

And for 1962, 127,219 cars. There is, therefore, a material gain to the credit of western live stock traffic thus far this year over either of the preceding two years, despite the southwestern shortage of supply.

The commercial year's report on the pork packing industry confirms these figures of the increase of live stock traffic. The Cincinnati "Price Current" gives 25,-411,676 head as the total of hogs packed in the western centers during the year ending March 1, compared with 25,600,674 head for the preceding year. The receipts of hogs at New York, Philadelphia and Baltimore, however, during the 12 months ending March 1 were the lowest in seven years.

HOOD FARM

Garget Cure

Pratt's Junction, Mass., April 14, 1992.—Mr. W. A. Dingley makes the following statement: "About six weeks ago I bought a \$2.50 package of Hood Farm Antiseptic owns that had not come in season for from three to six months. Since treatment with this powder tand began treating three cows that had not come in season for from three to six months. Since treatment with this powder and began treating three cows that had not come in season for from three to six months. Since treatment with this powder and began treating three cows that had not come in season for from three to six months. Since treatment with this powder and began treating three cows that had not come in season for from three to six months. Since treatment with this powder thase cows that had not come in season and have been served."

Prepared by C. I. Hood Co., Lowell, Mass.

NOTE the combination sale of Shorthorns at Chillicothe, Mo., on May 15, 1962, by the following well-known breeders: Purdy Bros. and C. W. Thomas, Harris, Mo.; John Morris, Joe Beazell and R. V. McGulre, Chillicothe, Mo.; J. F. Finley.

Mr. W. A. Dingley makes the following statement: "About a 22.60 package of Hood Farm Antiseptic cows that had not come in season for from three to six months. Since treatment with the powder than began treating three cows that had not come in season and have been served." to improve your grade cattle at home, and no farmer can afford to use a grade bull

In garget the udder ecomes inflamed, not, red and painful, and the milk seems thick, stringy, bloody or watery.

A tablespoonful of Hood Farm Garget Cure mixed with damp feed two or three times a day will cure any ordinary case.

"One of my cows had bloody garget and I fed her Hood Farm Garget Cure, night and morning for six days, after which the milk was all right." A. E. Looms, North Wolcott, Vt.

Prices, 31 and \$2.50. Sent to any railroad express point in the United States, \$1.25 and \$2.75. Large holds four times dollar size.

Hood Farm Salve — especially prepared to be used in connection with our Garget Cure. Also excellent for cracked the content of the salves. The content of the salves are sent of the sound in the content of the sound states, \$1.25 and \$2.75. Large holds four times dollar size.

Hood Farm Salve — especially prepared to be used in connection with our Garget Cure. Also excellent for cracked the content of the salves. The content of the salves are successed to the salves are successed to the salves and the Shorthorns and Berkshires for salves. Lord Fremier, the leading herd to the salves are successed to the salves are salves and the Shorthorns and Berkshires for salves. Lord Fremier, the leading the salves are successed to the salves are successed t

The best lamp in the world is not best, without the chimney I make

for it.

My name on every one.

If you'll send your address, I'll send you Index to Lamps and their Chimneys, to tell you what number to get for your lamp MACBETH, Pittsburgh.

copy of the Stock Breeders' Annual for 1902. It contains a report of the proceed-ings of the twelfth annual meeting of the ings of the twelfth annual meeting of the arsociation, also a Kansas Breeders' Directory. Stockmen of Kansas and of other states, too, will find in this annual a large amount of fresh and valuable live stock information, and we suggest to our readers that they send to Secretary Heath, Topeka, Kan., for copies.

MR. JAS. A. TEEL, Rushville, Ill., will, n herd of 49 head, 37 cows and heifers and 12 bulls. All cows old enough will be bred or have calf at foot by the Scotch Mysie bull "Marmion 127261, bred

Heroines sired by Proud Aberdeen. No ought to suit the buyers fortunate enough family of Angus cattle is in higher favor and justily so, than is the Westertown died his cattle in a practical way and they es the cattle bu

D. R. THOMAS.

D. R. THOMAS, B. F. D. No. 1, MONEYT, MO.

L. G. JONES, Towarda, III. Shorthorn Cattle,

Berkshire Hogs, Angora Goats, Light Brahma and Golden Seabright chickens. Stock and eggs for sale Call on or address J. J. LITTRELL, Sturgeon, Mo.

CLOVER LEAP FARM HEREFORDS. est imported and native surmanders met.
om station; telephone. Visitors met.
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sale.
W. G. SWINNEY,
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ENGLISH Red Polled Lattle. fine stock. F. Your orders sol L. K. HASELTINE, Dorcheste

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Sales made anywhere on earth Correspondence Solicited. R. W. MITCHELL,
LIVE STOCK AUGTIONEER,
E J breed pure bred cattle and hogs, my hes
of pi trons say I know how to sell them. Write fo
terms and dates.

W. D. ROSS

H. W. KERR, EDER OF RED POLLED CATTLE od young buils for sale. Carlinville, III.

Shorthorn Cattle, Berkshire Hogs, Cotswold and Shropshire Sheep. Bulls ready for service. Some choice boars and 15 bucks for sale at reasonable prices. The pure Scotch bulls Violets Prince 145,647 and Golden Sym-pathy 151,656 in service.

R. NOBLE, Breeder of Registered Hereford Cattle; Sir Garfield No. 93928, a grandson of Garfield 7,015 heads the herd. Young stock for sale. OFFERVILLE, ILL. POLLED DURHAMS.
All double standard; all good colors and all good ones. Bulls for sale.

DOD & COTTEY, Knex City, Me.

THE name of SAM W. OOX has appeared to the readers of Colman's Eural World longer than any live-stock breeder in Shorthorn Cattle, 18th Duke of Ocdarvisw 128901 in use. Up-te-date Poland China Hogs. Eggs from choice Plymouth Rocks. Write him again if you want saything at South Greenfield, Mc., on K. C. & Pl. S. branch Of ABERDEEN ANGUS. PIASA Let me give you prices and fit rates on choice Females and Bulls that will sire prise-winners, J. P. Viss-BERING, B.13. Molville, Ill.

CEDAR VIEW AND GROVE HILL
SHORTHORNS.

SHORTHORNS.

Gay Laddie 119.233 at head of herd. Toung steck for sale. Call or write.

POWELL BROS. Lev's Summit, Mo.

HEREFORDS

Registered Hereford Bulls, from 8 to 20 months old; 10 nice Yearling Helfers, fine as silk; 10 2-year-old Helfers, bred to choice bulls. Herd contains 135 head. Call on or address.

N. E. MOSHEPASON Sallabours M.

N. E. MOSHER&SON, Salisbury, Mo.

ultural College along the line of animal

Editor RURAL WORLD: Please find is by Roi mclosed my check for advertising. 1 am Champion leased to say that I consider this the neat money I spent in advertising the sale.

PROFITABLE BEEF PRODUCTION.
The April bulletin of the Missouri State truly, preciate the treatment and courtesies extended by the RURAL WORLD. Yours truly, Adrian, Mich.

The April bulletin of the Missouri State Board of Agriculture, after giving a report on the condition of crops and live stock at the beginning of the month, is devoted to the live-stock industry.

F. W. Mumford, Professor of Agriculture in the Missouri Agricultural College, contributes a valuable article on the factors in profitable beef production, namely, conformation or type of feeders, age and photo engravings, which add much value to the article.

A report of the annual stock-judging contest participated in by the students in the short winter course in agriculture is presented, together with three of the sasays submitted, as one of the features of the contest. We hope to print these essays, both because they contain information that will Ee of value to practical stock men and to show the character of the work height down as the Missouri Agricultural coloring for a bull suitable to head a herd looking for a bull suitable to head a herd

SIXTH ANNUAL

# PUBLIC SALE

## Shorthorn Cattle ON TUESDAY, MAY 20, 1902.

At my farm, 1 mile north of Rushville, Ill.

ing, descending from Imp. Orange Blossom 19th, by Royal Duke of Gloucester (29864); Imp. Michigan Casket by Senator (27441), 2nd dam Cactus by Champion of England (17526). Imp. Lady Mysie 6th, by Gravensend (46461). Goodness, Young Mary, Harriet, Jessamine, Gayly and Amelia families. I have used for last 40 years the best bulls of otch and Bates breeding I could get on cows of the above families and I think I can, on day of sale, show you a good lot of cattle

SEND FOR CATALOGUE TO

## JAMES A. TEEL, RUSHVILLE, ILL.

Auctioneers: COL. JONES, COL. HARTOUGH

## SHORTHORNS AT AUCTION

KANSAS CITY, MO., WEDNESDAY, MAY 14,

75--Scotch, Scotch-Topped and Bates Short-horns--75

41 cows, 3 to 8 years old, some with calves at foot, 6 two-year-: id heifers, bred, 12 heifers 7 to 20 months old, and 16 bulls 12 to 24 months old.

A Grand Lot of Highly Bred Short-horns o' Great Quality from the Oldest Herds in Mis-souri. Everybody invited.

W. T. & H. R. CLAY, Plattsburg, Mo.

## SHORTHORNS AT AUCTION

\*\*\*\*\*\*\*\*\*\*

CHILLICOTHE, MO., MAY 15, 1902.

60--Cows, Heifers and Bulls--60

A chance for all classes of buyers to secure just what they need. Cows with calves by side and bred again. Helfers asfe in calf and youne buils bred well enough to head any herd, from such families as Young Fhyllis, Young Mary, Arabella, Rosemary, Lady Barrington, Rose of Sharon, Caroline, Sanaparell, Deademons, Victoris, net. Sired by Imp. Nanparell Victor, Imp. Grand Elector, Imp. Knight of Shiterprise, Chief Violet 4th, and Scottish Hero.

GONTRIBUTORS.—Purdy Broa, C W. Thomas, Harris, Mo.; Jehn Morris, Joe Beanell, R. V. McGuire, Chillicothe, Mo.; Geo. Bothwell, Nottleton, Mo.; J. F. Pinley, Breckenridge, Mo.; Phelps & Trimble, Sanpeel, Mo.; G. W. Wood, Winston, Mo.

For catalogs, address COL. HARRY W. GRARAM, Chillicothe, Mo. Austlowers, Cols. BPAREMS, CHARAM, Chillicothe, Mo.

## GEO. BOTHWELL, Manager-

STANDARD BEARER. ... F. Bellows 





## SAN RAFAEL HEREFORDS

WEDNESDAY AND THURSDAY, MAY 7 and 8, 1902,

## 90 Head of Registered Herefords.

78 COWS—Nearly all of them in calf or with calves at foot.

12 BULLS—Strong, lusty fellows, ready for immediate use.

A selected draft from an old established heard of 1,000 head.

The San Rafael Herefords are Arizona range bred, raised on native asses, in fenced pastures, are in perfect health, have strong constituing, and are in every way a desirable and profitable kind of cattle to note.

Bulls strong in the best blood of the breed have been used in this herd or years. The opportunity is unequaled for breeders, and especially for eginners, to secure strictly well-bred cattle at their own prices.



R. THOMAS, 225 W. 12th St., Kansas City, Mo.



## KANSAS CITY'S ONLY

## Aberdeen-Angus **AUCTION**

OF THE SEASON

AT THE FINE STOCK SALE PAVILION

Stock Yards, Kansas City Mo., TUESDAY, May 6,1902

## 35 Bulls-50 HEAD-15 Females

FROM THE HERDS OF

W. J. TURPIN, Carrollton, Mo. JOHN D. BLACKWELL.

Carrollton, Mo. MARION C. STONE, Milan, Mo.

Pleasant Hill, III.

BERRY LUCAS, Hamilton, Mo.

H. H. ANDERSON, Laredo, Mo. J. F. HANNA, Tarkio, Mo. I. D. WEBSTER,

N. R. TRACY, Trenton, Mo. W. M. ENGLAND, Callao, Mo.

O. A. BRIDGFORD, Joy, III. J. B. WITHERS,

Missouri City, Mo. W. W. MASSIE, Paris, Ky. The offering is a good, useful one, combining individual merit with choice blood lines, and affords the only opportunity that has been or likely will be presented this spring to secure at Kansas City serviceable bulls and breed. ing females of this great market-topping breed at public valuation.

FOR CATALOGUE ADDRESS W. C. McGAVOCK,

Manager, Mt. Pulaski, III.

Auctioneers: COL. F. M. WOODS and assistants.

## ST. LOUIS NATIONAL STOCK YARDS.

THE LIVE STOCK MARKET OF ST. LOUIS.

National - Stock - Yards. C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr



"Sunny Slope Herefords." TWO HUNDRED HEAD FOR SALE, consisting of 40 goest cows 3 years old or over, 10 3-year-old heifers bred, 50 yearing heifers and 100 buils from 8 months to two years old. I will make VERT low prices on any of the above cattle. Write of

come to see me before buying.

C. A. STANNARD, Emporia, Kan.

V. D. DIERKER, Breeder of REGISTERED SHORT-HORN CATTLE, POLAND CHINA HOGS, PLYMOUTH ROCK POULTRY, BARRED WHITE AND BUFF. Your trade solicited. Eggs \$2 per setting.

Blackwater Shorthorns. F. M. Marshel, Prop. BLACKWATER. Cooper Co., Mo.

Herd headed by the Orulckshank Bull. Orange Hero 181,885 by Godoy. Females are of pure Scotch as
re Bates, with individual merit the standard. Young stock of both sex for sale.

Registered Shorthorn Cattle AND POLAND-CHINA HOGS, Bred and For Sale by H. A. BARBER, WINDSOR, MO.

## TEBO LAWN HERD OF SHORTHORNS OWNED BY-

G. M. CASEY, SHAWNEE MOUND. HENRY COUNTY, MO. Railway Station, Clinton, [Mo.

LINES OF BREEDING—"The Caley Mixture," Cruickshanks and other Scotch est tie, Bates and Renick Rose of Sharons.

HERD BULLE—Imp. Cellynis 136022, bred by Wm. Duthie; imp. Blythe Vieter 140808, bred by W. S. Marr; Admiral Cedsy 133872, bred by Col. C. E. Leonard; Vieter Bashful 182787, bred by J. R. Crawford & Sons; Vieter Abbett, bred by T. J. Wallace & Son and Section Lavender, bred by Hanns & Co.

Address all correspondence to

E. B. MITCHELL, MGR., CLINTON, MO., RURAL ROUTE NO. 1.

## 20 BULLS=25 YOUNG COWS

S. W. ROBERTS, PLEASANT GREEN, MO.

## Horseman



The following stallions adertised in the RURAL WORLD for the season of 1902 are well worthy of patronage:
Red Roy, 2:24%, by Red Heart; Henry Heineman, Ballwin, St. Louis Co., Mo. Surpol, 2:10 by Electricity; Alexander & Renshaw, Tipton, Cooper Co., Mo. Wilkesby 33333, by Red Wilkes; W. F.

moth 238; L. M. Monsees & Son, Smithton, Pettis Co. Mo.
Mondorf 2309, by Allandorf, 2:19%, son of Onward; Thos. H. Moore, Troy, Lincoln Co., Mo.

n. Mgr s."

Can. HORT-CHINA BUFF. s, Mo.

TER, Mo.

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MO.

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10.



of the newcomers to the list was May Allen, that lowered her prevolus mark of 2:25 to 2:69%, a reduction of 15% seconds, and All Right is next, having reduced his record 10 seconds, from 2:19% to 2:69%. The best showing made by the green class was by Eleata, 2:68%, Captor 2:69%, Country Jay 2:16%, Col. Cochran 2:16%, and Neva Simmons 2:111%. These trotters not only distinguished themselves by taking fast records, but are numbered among the largest money winners of the past season. Eleata is not only the fastest green trotter of 1901, but was, all things considered, the best race mare seen on the

A narrown foreign the vessel security of the Macrotan Proteining and the Security of the S

The control of the co

BLUE BULL NOTES

Editor RURAL WORLD: Wm. E. Lowrey of Ferris. Hancock county, Ill., asks
for the dam of Trim, 2:19%. Says she was
sold to parties in Kansas City, Mo., in
1881 for \$300. In 1883 Trim, by Young Denmark, dam Lady Blackie, by King Wililam, Jr., reduced his record to 2:16%.
This mare has no other colt credited to
her, and I do not know who has her at
the present time. Any one who knows

country 187 21984, Col. Ocehena 1398, and Are Stimmon 21918, and Are

Soft Harness **EUREKA** Harness Oil

lously be a mistake. Oats contain 9 per ent of protein and 47 per cent of carboper cent protein and 40 per cent of carbo much better satisfaction than to feed one kind of grain exclusively. A mixed feed is more palatable and more digestible

Few farmers are willing to accord the proper value to wheat bran. They imagine because it is so light it has but little feed value. Its greatest value is in combination with other feed. It is laxative and aids in digestion. Its practical value is greater than its scientific value. Oil meal is very rich in protein, and while rather expensive, a little can be fed to an advantage. It is laxative also and helps very much to keep the coat smooth.

Where it can be obtained, skim milk is an excellent feed, especially while the colt is young. It sometimes happens that the dam does not give a sufficient quantity of milk. In such cases natures supply should be supplemented with skim milk, at least until the colt is old enough to eat readily. Its first grain should be ground and fed where it can eat at leisure without inter-



## MISSOURI STATE FAIR RACES.

| AT SEDALIA, AUG. | 18 to 23, INCLUSIVE.   |
|------------------|--|
| SECOND DAY       | FOURTH DAY   3 307   2:30 Trot.   1000   2:23 Pace   8:500   2:20 Trot.   500   2:20 Trot.   500   3-minute Trot.   8:200   2:13 Pace   3:200   3:20 |

And In Addition, One Running Race Each Day.

Entries close June 2nd. This meeting falls in line with and becomes part of S. W. Mo. Circuit, of six continuous weeks, of which Col. John D. Moore, Rich Hill, Mo., is Secretary. Usual conditions prevail. For full particulars of State Fair Meeting address Col. J. R. RIPPEY, Secretary, Sedalia, Mo.

## COLUMBIA, MO., RACES.

No. 8-2:16 Class Pace. 400 No. 3-Free-for-All Pace. Running Races same as last year. Stakes close June 20.

For Particulars and Conditions Address B. E. HATTON, Secretary, Columbia, Missouri.



25 JACKS AND JENNETS.

N. H. GENTRY, Sedalla, Mo.

## THE LAFAYETTE STOCK FARM.



J. CROUCH & SON,

LAFAYETTE, INDIANA



## STALLIONS.

## **Limestone Valley Farm**

Mark Time. All three dams in the great broad mare list. \$15 to insure mare in foat.

LiMESTONE ARTIST \$89, sired by Artist Montrose 51, dam Manud Wallace isl, by Kentucky Bird, by Fayete Den, and the condition of the condition

MONGOLD, 28625,

WOODSPRITE 7825, sire of Hall Frey 2:18%, Woodchief 2:22%. By Allandorf, 2:19%, the best-bred son of the great Onward, as his dam was that greatest of all brood mares, Alma Mater, the dam of Alcyone, Alcantara, etc., whose records as producing sires are unsurpased. Mongold's dam is Monitor Mark Time. All three dams in the great brood mare list. \$15 to insure mare in foal, are all in the great brood mare table Mongold has a matinee race record or

Wilkesgold 2630

Wilkes

He is one of the best bred stallions, as well as one of the best individuals in the West. Call at my stable, or address Dr. William Colman, Sterling, Kan.

RED ROY, 2:24 1 Shy Red Heart, 2:19, the sire of Chain Shot, 2:98%, and II others Dr. Laste C. with six in the list. RED ROS breeding is the best the land affords. He is a race horse, and his get shows that he transmits speed to a remarkable degree. He will make the season at the Helnemann Farm, 20 miles from St. Louis, at \$25, to insure mare in foal, due collected and the co

One of the best-bred sons of the great Red Wilkes, dam Balloon, by the great Belmont, son of Alexander's Abdallab-the best son of Hambletonian 10, will make the season of 1902 at my stables, at very reasonable terms. He is ever 16 hands and has the fine style of the Belmont family. Address

W. F. SCHADE. Pocahontas, Cape Girardeau Co., Mo.

SURPOL, 2:10

Surpol, with a race record of 2:10, and trial of 2:06%; sired by Electricity 5344, record 2:17%; dam Sallie Benton (4), 2:17%, world's champion in 1884, 1885, 1884.

Alexander & Renshaw, Tipton, Mo.

Breed to MONITOR RUSSELL, \$33727, Sired by Alley Rusell, 2:22%, dam Mon-sulta, by Sultan, 2:24, if you want large, anywhere. You have but to look at him to admire him. Terms exceedingly liberal. Address

D. S. Perdee, Walker, Vernon Co., Mo.

PRODIGAL 2680—Son of Onward. Season of 1902. For tabulated pedigree and terms address L. E. CLEMENT, Peirce City, Ma

The springtime of her childish years Hath never lost its fresh perfume, Though knowing well that life hath ro-For many blights and many tears.

Great feelings hath she of her own Which lesser souls may never know; God giveth them to her alone, And sweet they are as any tone Wherewith the wind may choose blow.

Yet in herself she dwelleth not, Although no home were half so fair; No simplest duty is forgot, Life has no dim and lowly spot That doth not in her sunshine share.

the doth little kindnesses Which most leave undone, or despise;
For naught that sets one heart at ease,
And giveth happiness or peace,
Is low esteemed in her eyes.

And deeds of week-day holiness r'all from her noiseles as the snow, Nor has she ever chanced to know That aught were easier than to ble -James Russell Lowell.

Written for the RURAL WORLD.

The would-be purchaser looked over the

wooks on sale a while longer, and then inroom." "Well, I want to see him," persisted the man. The proprietor was called,
and the stranger asked: "What is the
lowest, Mr. Franklin, that you can take
for that book?" "One dollar and a quarter," was the prompt rejoinder. "One
dollar and a quarter! Why, your clerk
asked me only a dollar just now." "True,
said Franklin, "and I could have better
afforded to take a dollar than to leave my
of 20 years ago that could be outlined, as

will, into either wealth or wisdom.

There is a moral for us in this story who are apt to go at unseasonable hours to visit friends, and to us who are so stupid they should be made before the should be made before they should be made before the should be should be made before the should be should be made before the should be sh that we can't see that our busy neighbor would love us more if we made a protracted call when her hands weren't quite MRS. MARY ANDERSON. Caldwell Co., Mo

Written for the RURAL WORLD ROSA AUTUMN'S TALK.

How sad it is to know that another one of our beloved Home Circle has been called to leave us to join those of our Circle who have gone to the Heavenly Circle. We miss them here, but we are assured

We miss them here, but we are assured they are far more happy in the Circle above. Miss Eleanor Parker, you have our sincere sympathy in your bereavement. I know how to sympathise with you in the loss of a mother, as I had to part with my mother years ago. Now, you must try to be in our beloved H. C. as often as you can to fill that dear mother's place with us. We will always be glad to have you with us.

Mrs. M. A. Bucknell, we are glad to see you in your place again. We miss you

Mothers will find "Mrs.

Mothers will find "Mrs. Texas Co., Mo. ANNIE HOFFARTH.

you in your place again. We miss you when you are absent so long.

ree. Halls Family Pills are the best.

Cherokee Lady, you are right about was a reditor's patience. I sometimes wonder will it, can it, last, to go through with that I am sure she has to contend with? Who called a pleasant hour to should be of patience and endurance.

"Med, you may choose what games blay!"

That's what I'd do, If I were you.

"That's what I'd do, If I were you.

"That's what I'd do, If I were you.

"That's what I'd do, If I were you.

Ina May must be our president.

Martha, I hope we will meet at the reunion and have a great long talk over
past events. I am sure I shall enjoy that

visit with you.

Mattle B., I would be glad to call on you if I should ever go to see my dear fr.end, Mrs. Schattner, again, which, I fear, will not be soon, as my health is very poor, and I doubt if I will be able to make the fire again. I have been for two.

And it should be my teacher's To say she had no better boy, you fire tweeth and twould be true, if I were you. I'd always tell the first have been for two. nake the trip again. I have been for two months and am still under the doctor's care. I am able to be out of bed, but am far from being well. You go over to see Mrs. Schattner and let her tell you of some of our harves worthers. of some of our happy youthful time away back years ago in our dear Louis nes. She will be delighted to lk it over w.th you, she never forgets ything, especially pertaining to her appy girlhood days, many of which I enyed with her there in our dear Ken-

Joyed with her there in our dear Acat-tucky homes.

Louisa Miller, I was glad to see you in our Circle again; come often. I enjoyed your letter so much in the lasue of March

Pauline any more? What is the matter? premiums at the Montgomery City Fair. We would be so glad to see an article I lived two and one-half miles west of from her in our Circle. I wish you could all see my lovely flow-

TIME WASTERS.

There is prevalent a feeling that one should always be glad to see one's friends: and one should to see one's friends: and one should to see one's friends: and one should remain the early the early that there are many calls by so-called friends that are almosy and at lonoportine time. It is a woman has a washing to do and a dinner to prepare, a neighbor or friend may call early in the morning, and so prolong her stay as to secriously interfere with the household plans of the budy woman.

Many women rush into a neighbor that they have the did not a neighbor and they have the did not a neighbor should be suffered eight in the morning when they call, and be nearly eleven o'clock when they do not never than a new to be an additional to some the calling neighbor had so planned her work that she has not been inconvenienced. It is a positive unkindness to thus treepas on a busy woman's time when she is underwork that she has not been inconvenienced. It is a positive unkindness to thus treepas on a busy woman's time when she is underwork that she has not been inconvenienced. The call made use of the written prevent that of our friends; but fyou go to make a long morning call when your hostess is not expecting you. It her understand the situation at once. It will save her fret, worry and labor.

Time can never be restored, yet how provided to some the condition of the condition of

an that?" "One dollar is the pr'ce." e answer.

will give our method of cooking sausage if desired; we never fry it.

We never have warm supper during hot weather, always preparing enough at dinner, and as all our vegetables are seasoned, whe is very busy in the present weather, always preparing enough at dinner, and as all our vegetables are seasoned with the seasoned with the seasoned with butter and cream, they are palatable enough to eat cold. As we live in the stranger asked: "What is the fruit belt, we never eat a meal without one or more kinds of fruit.

I made dresses for the gir's, aged 9 and 13, of very heavy unbleached muslin, making the waist double of the new goods.

said Franklin, "and I could have better afforded to take a dollar than to leave my work." The man seemed surprised; but, wishing to end a parley of his own seeking, he demanded: "Well, come, now, tell me your lowest price for this book." "One dollar and a half." replied Franklin. "A dollar and a half! Why, you offered it yourself for a dollar and a quarter." "Yes," said Franklin, coolly, "and I could better have taken that price then than a dollar and a half now."

The man silently laid the money on the made and colored cardinal or turkey red, naid the money on the book, and left the store, salutary lesson from a dollar and a half now."

The man silently laid the money on the counter, took the book, and left the store, having received a salutary lesson from a master in the art of transmuting time, at master in the art of transmuting time, at most of the wealth or wisdom.

and one will outlast three made of calico. I purchased some muslin of about the same weight as that from which flour same weight as that from which flour sake are made, and by coloring the tops red and linings dark, covered two threads. bare quilts at a total cost of 70 cents, and changes his position. He puts the kitten

tussie at the hands of the small boy of the family.

Hoping I have not occupied too much space, and that some one may have been benefited by some suggestion offered, I will come again in the near future and tell the sisters how we make a success of the populity on the form; also how we the poultry on the farm; also how we make gi't-edge butter and give some ex-

HOW TO CLEAN A FEATHER BED. -A reader of the Home Circle wishes have directions given for cleaning feather bed. The experience of those wi

TO STARCH LACE.

HOW'S THIB!

TO STARCH LACE.

To make the starch properly mix it with enough cold water to make a smooth paste. All cold water to make a smooth paste. All cold water till it looks like milk and water, and then boil it in an excellent and harms and water, and then boil it in an excellent and harms perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm. West & Truax, Wholesale Druggists, Toledo, O.

Walding, Kinnan & Marvin, Wholesale Druggists, Toledo, O.

Walding, Kinnan & Marvin, Wholesale Druggists, Toledo, O.

Walding, Kinnan & Marvin, Wholesale Druggists, Toledo, O.

Walding of the staken internally, acting directly upon the blood and mucous surfaces of the system. Price 75c per bottle. Sold by all druggists. Testimonials free.

Halls Family Pills are the bost and if carefully pulled into shape

'd never break the smallest rule; And it should be my teacher's joy

For two things only I despise-A coward heart and telling lies;

o do the things I here suggest;
hough since I am no one but me
cannot very well, you see,
Know what I'd do

If I were you.

Written for the RURAL WORLD. AN OLD EQUESTRIENNE.

writer's experience in horseback riding. It carried me back to my girlhood days. I delighted in riding and I captured several Montgomery City. I broke a young horse to ride to school, and didn't I ride though;

hard to adopt, because we are prone to be such moral cowards.

A time-waster who had been dawdling for an hour in the front store of Frank-lin's newspaper establishment, at length asked, "What is the price of that book?" age cooked and put up we can have it ready in five minutes, and it is generally a sign and the first type of the wag on to eather corn. Is well asked, asked the lounger; "can't you take less than that?" "One dollar is the price." will give our method of cooking sausage if desired; we never fry it. We never use neat for our own family during the summer, but by having sausage cooked and put up we can have it ready in live minutes, and it is generally a treat, as it is just as good as fresh. I will give our method of cooking sausage if desired; we never fry it.

We never have warm supper during hot weather, always preparing enough at dinner and as all our vegetables are season. any more. I am a coward when night comes. The trip was full of interest in daytime and full of fear at night. I vowed if I got home alive I would not travel that way again. My husband wanted me to return on the train, but I would not eave him to come home alone. He laugh-

ed at me.

I say, push the button, Ina May. I knew you would make a worthy suggestion. What does our editor think of the button? Oh, we will have such a grand time!

My remedy for ants in the cellar is to sprinkle dry sait in the bottom of the cellar freely.

MRS. EMMA SEE ROBERTS.

Audrain Co., Mo.

Humor brightens up the world, and fills ing spoils the enjoyment of some one.

The teaser is not always ill-natured. perhaps not often so. He steps on the toes of the dog that is trying to take a nap, till the patient creature gets up and changes his position. He puts the kitten in the crotch of the apple tree and looks. If you make garments of the muslin, they should be made before coloring, being then much easier to sew, and the thread then colors with the goods.

I colored some of the small scraps red and blue, and pleeded some pretty and serviceable chair cushions that will bear a trousers. He hectors and annoys every living thing that comes near him, with the family.

## A FINE KIDNEY REMEDY.

Mr. A. S. Hitchcock, East Hampton, Conn. (The Clothler), says if any sufferer from Kidney or Bladder Disease will write him he will tell him what he used. He has notning to sell or give; only di-rects you to a simple home cure that does the work.

## DYSPEPSIA.

The juice of the lemon diluted with four es its bulk of warm or cold water and drank without sweetening half an hour before eating will afford great relief in some forms of dyspeps'a because of the increased flow of saliva which the citric acid contained in the lemon produces. Prepared in the same way, if taken early in the morning and just before going to bed at night, it is an excellent and harmless stimulant for a torpid liver. A still better but more disagreeable way of preparing it for the same purpose is to make a cold decoction of boneset, strain and to each pint add the juice of three lemons. Drink a few swallows after eating and drank without sweetening half an h

Majestic Manufacturing Co., St. Louis-

FROM EASTERN ILLINOIS.

No doubt there are many others like age 175 eggs a year there could be rayself (in this one respect) who son for complaint. We should not, cactus, and will gladly give one in return.
When I read "Wife of Sorghumite's"
February letter I just wanted to put on
my bonnet and go right out and see those flowers, bushes and vines. "Dear me some one whispers, "Another flower crank!" Yes, I own it. But are they not beauties of God's own creation? Then why not talk of them, love them, yes, and

is a flock of beautiful P. Cochin ust beyond them is another flock of S. P. Hamburgs; then out about the barn is a ovely group of little Jersey calves. These

where up-country, set him to work brak-In' on a construction train at 3 cents a mile for wages. One day when him an' me was on the train she got away on one o' them mountain grades, and the first thing we knowed she was flyin' down the track at about ninety miles an hour, with nothin 'in sight but the ditch and the happy huntin' grounds when we come to the end. I twisted 'em down as hard as I could ali along the tops, and then of a sudden I see Mike crawlin' along toward the end of one of the cars on al 'tours, attively new breed it is a very in altively new breed it is a very in the conditions and the same may be sald of model. The same may be sald of model of the cochin family White Cochins for some years were a veak class, but are now coming to front grandly, and what wonder, go white beauties, and they large brown eggs in the weather, for their heavy plumage adoes other breeds, and so with the lo in' on a construction train at 3 cents a hold. the end of one of the cars on al' fours, with his face the color of milk. I thought he was gettin' ready to jump, and I see Javas, Minorcas, Game and others. Pe his finish if he did "'Mike,' I says, 'for God's sake don't

"He clamps his fingers on the runnin' board to give him a chance to turn round, and, lookin' at me contemptuously, an-

"'Jump, is it! Do yez think I'd be afther ampin' an' me makin' money as fas as am?" "—Portland Oregonian.

AINSLEE'S MAGAZINE for April con-AINSLEIS'S MAGAZINE for April con-tains an article of starting importance, "Divorce and the Family," by Rev. Percy Stickney Grant, one of the most influen-tial Episcopal clergymen in New York. This study of the most int mate and grave problem of American society is re-markably frank. "Along the Mississippi," in 1890, than in 1890, owing to the fact that the problem of the most intractively are smaller, as reported in 1890, than in 1890, owing to the fact that in 1890 they reported fowls of whatever age, while in 1990 only those three by John Swain, is a very attract vely mritten description of the ways of the months old and over were reported. Fiver and the people that live on it and the people that live on it and the people that live on it and seed to the harbor of \$19,186 dozen, against \$19,722,916 dozen in Anne O'Hagan, is another well illustrated the progress of this branch of the indusarticle that should have particular in-terest for women readers. "A Penny Saved Is a Penny Got," by John Gilmer 1900, was \$85,794,996; the value of poultry Speed, is a very readable account of raised in 1890 was \$136,891,877, and the the savings banks of the United States, value of eggs produced in 1890 was \$144. showing their enormous importance in the financial weight of the country. "The Brass Band," by Harvey Sutherland, is a ers from their poultry industry picturesque and humorous study of that most individual of American institutions in which over one million people are personally interested.—Street & Smith. Publishers. New York.

Editor RURAL WORLD: We kept but three dozen pullets during the past winter and have gotten more eggs than we have when we had 100 hens. And although we have had practically but one cockerel with them we have had fewer unfertile eggs than usual, the eggs hatching remarkably well; one hen hatching all the eggs she had in her nest. C. A. BIRD. Vernon Co., Mo.

the responsible together the very best of breeders in the country, and there is every reason to look forward to the coming one as a supreme effort on the part of the management to eclipse their splendid record. The eyes of the entire world are turned to the World's Fair City, and happenings there in the poultry way, as in all other lines of legitimate pursuits, will attract widespread attention. To take part in such an exhibition will redound to the credit and standing of its participants; to achieve success there will mean fame and fortune as well. This timely announcement will enable all lov-

No doubt there are many others like myself (in this one respect) who would rather read and listen to others than be heard or seen, and say a few words. To Blue Bells I will and say a few words. To Blue Bells I will must not only lay a great many eggs, but they must not only lay a great many eggs, but they must not only lay a great many eggs, but they must any them during the fall and Good hens, in order to be profitable, must not only lay a great many eggs, but they must lay them during the fall and winter months. In order to develop the best layers each hen must be carefuly watched, and those that fail she ce fattened and sent to market

WHITES VS. COLORED CHICKENS.

This subject is claiming wide attention This subject is claiming wide attention all over the country, where there is an interest in poultry, and we believe that the white plumage man is gaining ground constantly, writes Mrs. D. M. Johns in "Poultry Topics." We remember that a few years since the country was swept with a powerful wave of popular ty for the Barred Plymouth Rock, which we admit is yet a very popular breed, but we believe and have figures and facts to constitution. lovely group of little Jersey calves. These are beautles the city folks cannot enjoy. I am for a button, too, and vote one for Rosa Autumn as president of the reun on whether I am able to go or not. I cannot help thinking of the basket I read of so much.

MRS. E. B. SMOOT.

Vermilion Co., III.

WHY HE DIDN'T JUMP.

Pat's Wages Went Up with the Speed of Train.

Believe and have figures and facts to constantly taking the lead over the Barred. They possess all the good vantage of beauty of white plumage and as better egg producers. One fact pointing to their increasing popularity is the enormous prices now being paid for good seven birds sold for \$500. This was double the largest sum paid for this number of fowls, and many other breeders are sell-fowls, and many other breeders are sell-fowls. believe and have figures and facts to con fowls, and many other breeders are sell-ing their stock of this breed at fancy

Here is one that a young man who knows a good story when he hears it, the deard one railroad man tell another in depot up the line the other day:

Then of the Wyandotte family there are several different branches, but we see the White Wyandotto outstripping the others 'We picked up a new Irishman some- in the race for popularity, and as a get In the race for popularity, and as a general-purpose fowl, they have a strong hold. The same may be said of the Asiatic breeds. In the Cochin family the White Cochins for some years were a very weak class, but are now coming to the front grandly, and what wonder, great white beauties, and they lay such quantities of large brown eggs in the cold of weather, for their heavy plumage prevents the cold from chilling them as it a does other breeds, and so with the lordly es other breeds, and so with the lording atively new breed it is a ve ught after breed, and so with Leghorn are favoring the white plumage more beautiful, makes a much nic cass when dressed, and, not the la is much heavier dressed.

THE POULTRY BUSINESS

States, 5,096,252 reported poultry. The to-tal number of fowls three months old

and over reported was as follows:
Chickens, including guinea fowls, 233,598,085; turkeys, 6,599,367; geese, 5,676,862;
ducks, 4,807,388.
The numbers of nearly all these classes

lew Orleans. The illustrations from 1890. The increase in the number of eggi photographs have great variety and in-terest. "Indian Children at School," by number of different kinds of fowls marks

1900, was \$85,794,996; the value of poultry

The total income derived by the farm

poultry industry one of the largest connected with agriculture.

COLDS.—The most severe cold taken at the start can be routed by the use of quinine and hot lemonade, but they should be taken on retiring and the patient should remain in bed all the next day in a well-heated room. The juice of a lemon, half a teaspoonful of glycerine, the white of one egg and four tablespoonfu's of granufated sugar beaten together to a smooth compound will afford great relief in hoarseness.

Poultry

SUCCESS WITH POULTRY.

Editor RURAL WORLD: We kept but three dozen pullets during the past winter and have gotten more agree than we have condected with agriculture. The foregoing figures do not include any statistics of poultry and eggs raised outside of the farms and ranges. The regoing figures do not include any statistics of poultry and eggs raised outside of the farms and ranges. The regoing figures do not include any statistics of poultry and eggs raised outside of the farms and ranges. The number of chickens, including guinea fowls, having 18,907,673; Illinois second, with 48,671; Missouri is second, with 485,871; Missouri is second, with 482,307; lowa raises the largest number of ducks, reporting 487,752; Illinois second, with 392,857. Iowa reported the greatest number of eggs produced, 99,821,720 dozen; Illinois reports the second largest number, 86,402,670.

CROP-BOIND TUBLEYS

CROP-BOUND TURKEYS.

the spring when turkeys begin to markably well; one hen hatching all the eggs han usual, the eggs hanching remarkably well; one hen hatching all the eggs she had in her nest. C. A. BIRD. Vernon Co., Mo.

THE ST. LOUIS POULTRY SHOW.

Readers of the RURAL WORLD will be interested in the announcement that the St. Louis Fanciers' Association is to give its eighth exhibition of poultry, pigeons and pet stock in St. Louis beginning December 29, 1902, and continuing until and including January 3, 1903. These exhibitions in the past have brought together the very best of breeders in the country and there is a source of the spring when turkeys begin to make the will occasionally be one get crop-bound by eating long, dry grass, roots or some substance which they cannot digest and which packs in their crops, preventing any food from passing down, and the bird will eat until the complex of the strying to swallow, catch the bird and examine it; if the crop is full and hard, the breath sour and very offensive, you may be sure there is trouble; but if found before their system gets deranged you can usually cure them by taking a sharp knife, open a place in the crop and take out all food, wash out with warr.

When the spring when turkeys begin to concasionally be one get crop-bound by eating long, dry grans, roots or some substance which they grans, roots or some subs

## MISS FAY LEE,

"Your booklet came to my home like a message of health when I had suffered with headache, backache and bearneadache, backache and pear-ing-down pains. I was weak, nervous and hysterical and had not consulted any doctor, thinking it would pass away in time, but instead I found that the pains increased and 13 Miss Fay Lee.

in time, but instead I found that the pains increased and were more frequent. I decided to try Wine of Cardui and in a short time was much improved. It seemed to act like a charm. I kept up the treatment and the result was most satisfactory. Words fail to express my gratitude for the suffering that is now saved me. I am in fine health, physically and mentally. I can only say 'thank you', but there is much more in my heart for you."

BEARING-DOWN pains are the worst that women know. If you are suffering from this trouble you need not be uncertain about it. The pains in the abdomen and back that feel as if heavy weights were pulling down on the nerves of the stomach are "bearing-down pains". They may not be particularly severe at present but they are growing worse. That headache which nearly drives you distracted now is caused by the terrible

nervous tension. The nerves soon begin to give way under the strain. You perhaps jump at any unusual disturbance, or laugh or weep, hysterically, at no apparent cause. That is what Miss Fay Lee, 603½ North Seventh Street, Kansas City, Kansas, was coming to when she rescued herself by taking Wine of Cardui. "he Wine made her a strong, healthy woman again, as it has made a million other women strong and healthy. By inducing regular menstruation the entire system is relieved of the terrible wasting drains. The ligaments which hold the The ner

drains. The ligaments which hold the womb in place are strengthened by healthy flow and that organ is returned by the strength of the strength to its normal position. Returning health is the result. This is what Wine of Cardui has done for thousand of the best women in America

If you need advice write The Ladies Advisory Department, The Chatta nooga Medicine Company, Chattanooga Tenn., describing all your symptom freely, and a letter of advice will b sent you. Secure a \$1.00 bottle of Win of Cardui from your druggist to-day

## WINE of CARDVI

Bronze Turkeys and Barred Plymouth Rocks For Sale. EGGS FOR SALE IN SEASON.

A million suffering wor have found relief in Wine of Cardui.

GENTRY BROS., SEDALIA, MO. Cedar Vale Stock Farm.

S. C. B. LEGHORNS Fine, thrifty, farm grown.
15 Eggs 31, 30 31.75.
C. S. Jenkins & Wife, Rocheport, Boone Co., Mo. Black Java Eggs \$1.00 per 15, \$1.50 per 10; from scored, healthy birds, extra good laying strains. Mrs. Fred Dalton, Walker, Mo.

Mammoth Blue Barred Rocks, cocks 12 lbs, heas 8 to 111-2 lbs; eggs from winners, score to 93 1-2: 82 per 15: 85 per 45; range stock #I per 15. MBS. JOHN L. GAISER, Charleston, Ill.

B. P. Rocks, Silver Gray Dorkins, M. B. Tur-P. S. Duncan. Perrin, Mo 15 EGGS. 75c | S. C. Brown Leghorns and Barre 100, \$3.50 | P. Rocks. Farm grown. MBS. P. A. WALTERS, (Box 353)

Reduced Prices—Pure Bred Poultry; 25 years' experien e; shipped fowls and eggs to almost every state. MRS. KATE GRIFFITH Bowling Green.Mo.

ROOKY HILL Poultry Farm—Wyandottes a spe-cialty, Silver L., Golden L., White and Buff Wyandottes; also B. P. Rooks, Buff Orpingtons, Pekin Ducks. We are booking egg orders now. M regular and apecial prise won at three shows. Write for circulars. Satisfaction guaranteed. JOHN A. SEAW, Box 69, McKittrics. Mo. E66S from eight grand yards of SILVER, GOLD EN, WYANDOTTES, BRONZE TURKEY: 43 per 16, 56 per 30. MRS. B. A. CREEL, Carroll ton, Wo., B. B. 2. Circular free.

EGGS From thrifty, farm-raised White Flymouth Rocks and Silver Spangled Hamburgs at \$1.00 per 15. \$1 50 per 36. All my birds are secred and Congrantee a reasonable hatch of chicks 

BIG REDUCTION in eggs that will hatch prize will for you. Buff and will for you. Buff and will be will for us and will for you. Buff and white Piymouth Books.

Write me. MRS. J. E. MAY, Wilson, Mo.

WANTED Agents. \$50 per month and expenses. EGGS From first Class B. P. Rocks, large and good layers, reduced to 76c for 18
Mts. W. H. TAYLOR, Salisbury, Mo. ANY LADY desiring a handsome \$2.00 set or band ring absolutely free by reta a mail. Send size and address and state which kind preferred. Address ROBBINS BROS., HILLBEOGO, ILL.

J. A. & W. S. HARRISON.

GARDENERS,
FRUIT GROWERS,
POULTRY and
BEE KEEPERS

SUPPLIES

BOX S. HENRY, ILL AUTHORIZED LIFE OF TALMAGE Edited by his Sen, Rev. FRANK DeWITY TALMAGE, D. D. contains over 500 pages: magnificently flustrated: price 3100. Highest commission; freight paid; necessary. Anyone can make from 300 to 300 per day easily. BEWARE OF O'THER TALMAGE BOOKS, AS THEY ARE ALL UNRELIABLE. The people want-"The Only Authorized Life." and will have no critical to day. Address services of the control of the

feed them in a raw state, and for this reason we have to feed a soft rat on. Most grains are better fed whole since it is a waste of grain to grind them and feed them in soft food. One reason for

but if found before their system gets deranged you can usually cure them by taking a sharp knife, open a place in the crop and take out all food, wash out with warm water and sew up the wound, then keep on soft food for a few days, says the "Record."

The best preventive of all disease, including crop-bound, is plenty of crushed oyster shells; keep it before them all the other words are found in the control of the control ally lay there after that. If you let the wander away to the woods to lay, yo chicken hen as soon as you get eight

tran. To take part in such an exhibition will redound to the credit and standing of its participants; to achieve success there will mean fame and fortune as well. This timely announcement will enable all lovers of the feathered tribe to amply perfect arrangements to be present with their birds.

The annual meeting of the association was held in St. Louis on March 7 last. The result of the election of officers was as follows: President, Henry Steinmesch; treasurer, R. C. H. Hallock; secretary, John A. Francisco; poultry judge, Sharp Butterfield.

WHAT IS GOOD LAYING?

A subscriber of the "Home and Farm" writes to ask how many eggs a year should a good hen lay. We believe it possible to develop hens that will lay 290 eggs a year, but a flock will not average that number, since there are

Plymouth Rocks for Farmers Fifteen eggs from pure-bred Barred Plymouth ocks for only \$1.00, \$6.00 per hundred. Why pay ancy prices for eggs when you can get as good as any at reasonable prices. I breed pure Barred P CLARK BROWN, Union, Mo-SARRED PLYMOUTH ROCKS EXCLUSIVELY for more than 20 years; stock first class. Per set-ting \$1 per 15. W. L. Kirkbride, Resemond, Ill.

Eggs from White Holland Turkeys and Black Langshaus. Mrs. J. H. Price, Clarksville, Mo. Chamberlain's Perfect Chick Feed.

W.F. CHAMBERLAIN, Kirkwood, Mo. PARRED PLYMOUTH ROCKS exclusion Thompson strain. Eggs #1 per 15.

MRS. J. R. JONES, Ashland, Mo.

EGGS FOR HATCHING.
High-Scoring Black Laugshaus \$1, 15; M. B. Turkeys \$2, 11; Embden Genes \$1, 6.
MRS. J. T. ARVIN, Boanoke, Mo.

BUFF ROCKS, S. L. Wyandottes and S. S. Ham J. E. HAYNES, Ames. Ill. EGGS FROM HIGH SCORING BIRDS White Wyandottes, Pure Duston \$2.50 per 15. 4.00 per 30; B. Rock, pen 1, 81.60 per 15, 82.50 per 30; free range 81 per 15, 54.60 per 100. Pekin Ducks, extra sizge, 81.00 per 5, 82.50 per 37. Poor hatches duplicated at one-half price.

MRS. G. F. THESCOTT, Winfield, Mo.

ROSE COMB BROWN LEGHORNS Farm grown. Eggs for hatching; 15 Eggs 75c 100 Eggs 44. W. J. RADOLIFFE, Box 77, Williamsfield, Ill.

U.S.& FOREIGN PATENTS and for advantage of the control of the cont





Pure Breed B. P. B. Eggs For Sale Mrs. W.H. OABTWBIGHT, Upper Alton, Ill esh and well packed. Orders booked as re wed; \$1.90 per 18, \$1.50 per 30. PURE BLACK BREASTED RED GAMES. Cockerels \$1.50, Hens \$1.00, Trio, \$8.

Eggs in season, \$1.00 per 13.
Mrs. L. M. MONSEES,
LIMESTONE VALLEY FARM, SMITHTON, MO \$5.00 Buys 100 Eggs.
\$1.25 One Sitting...\$2.00 Ten Turkey Eggs
Brown Leghora, White Leghora, Barred Rock,
White Book Black Minora and Brouse Turkeys.
Stock for Sale. Circular free. Write
E. W. GEER, Farulington, Mo.

Eggs for Hatching.

White Langshans, S. L. Wyandettes, S.C.
Leghorns, Buff Cochins, G. Seabright
antams, M. B. Turkey and White China Se. J. M. STONE, Box 30, Hinton, Mo.

W. J. OHENEY, Oubs, Mo., breeder of thorough, bred Poultry. Eggs for hatching \$1 per setting; \$0, 83. Write for my illustrated catalogue BARRED PLYMOUTH ROCK EGGS Winning 33.75, 45. M. B. Turkey large and fine, 33, 5, 15, 13 MRS. U.E.THURMOND, Louisiana, Mo

MONEY IN EGGS if you pack them for winter compound see a package. Agents wanted. C. R. COGGESHALL. Webster Groves, Mo. EGGS! EGGS!

MRS. WM. BRITE, WALNUT, KANSAS.

LECHORN ECCS rom he greatest laying strain on earth. own and White Leghorn Eggs 75c per sett 100. W. P. Chamberlain, Kirkwood, Mo.

WALNUT VALLEY POULTRY FARM. Barred Plymouth Rocks exclusively. Eggs 81.50 per 15; \$3.50 per 30. G. M. HOADLEY, sedalia, Mo HIGH-GRADE LT. BRAHMA EGGS.
One dollar per fifteen.
MRS. KATE OLIVER. Montgomery City, Mo.

15 Eggs, \$1 FRESH NALE BARRED ROCKS Nepenthe Poultry Ranch, New Florence, Mc. 1882 REED 1902

Eggs for hatching, 32 per 15, from prise-winning tt. Brahmas, S. L. Wyandottes, scores 91 to 94 3-4 Right dealing. H. T. REED, Camp Point, Ill. EGGS from prise-winning stock; White Holland Turkey Eggs; 33 per 9; 35 per 18; B. P. Rock Eggs 81.50 per 18, 3f 56 per 58. MISS MARY L. SOSAAL, Lexington, Mo.

WHITE Laughans. Prize-winners at Mc. State Show: Buff Rooks (Burdick); good surface and under color; Eggs ressonable. Mrs. L. Mumpower, BRIZE-WINNING Light Brahmae, Barred Ply-Books, S. O. Buff and Brown Leghorns. Stock for sale; Eggs 31.50 per 15. WEEN TENS BROS., 1800 Kemper Park, St. Louis, Mo.; J. S. Mertens, Judge

CUE IMPROVE ders now nooth, prize-de. Call on o H. RAUSC

RU

POL 160-LB. PIGS 2d. 8. Black Ch

VIVION Breeders of the Legistered Jers Yeang stock for FOR SALE : ling boar. M.
Munger straim.
teen for \$1.00.
('. II. JON

Pure Bred Po Shropshire Do DUE BIG 2 HERD duror-Jerse

40-Of Bred Sows

dual merit of Berkshire herd boars land China tion boar; C. G. STAN

POLAND-CH

send \$1

MOORE CH

CURE CANCER

IMPROVED CHESTER WHITES. RAUSCHER & SON, Ashton, Mo.

POLAND-CHINAS. 

WALNUT Valley Farm Herd-Poland hinas, Black U. S. Chief Perfection 2nd and Tecum-che at mod. prices. Ernest. W. Wallen, Monett, Mo

VIVION & ALEXANDER,

FOR SALE at reasonable prices P. C's of winter and spring farrow and one good year-ling boar. M. B. Turkey eggs eleven for \$5 00 Munger strain. Barted Plymouth Ecok eggs fifteen for \$1.00. C. H. JONES, R. R. S. Pawnee, III.

## FOR SALE.

Bred Poland China Sows and Gilts and pahire Down Ewes, bred.

J. W. BOLES, Auxvasse, Mo.

DUROC-JERSEYS. BIG 2 HERBN Duroc-Jersey and Chester White Hogs. Top individuals. He screen-tage crated. Write for let-live prices. J. E. HAYNES, Ames, Ill.

Juroc-Jersey and Berkshire Hogs! Extra Breeding.
tatisfaction guaranteed or you may return at my penne S. C. WAGENER. Pana, III.

40---DUROC-JERSEYS---40 Of Bred Sows and Gilts of Best Strains. S. G. RICHARDS, Sturgeon, Wo.

POLAND-CHINAS. Gilt-edge pedi-idual merit combined. L. GRGAN

Berkshires For Sale:-Bred sows and 3 boars; all good ones. Also a few Po China gilts, bred to a Chief Perfec



## STANDARD OF THE WORLD

for 60 years. Used on 250 millions annually. Superior to all other kinds. No smell. Benefits while it cures. Keeps flock clean a long time. Increases growth and quality of wool. Used by large majority of sheep breeders in all countries.

If local druggist cannot supply, end \$1.75 for \$2 (100 gal.) pkt. to WM. COOPER & NEPHEWS, Chicago.

## DIPPEED MOORE'S HOG REMEDY PREVENTS & CURES DISEASE

Kills lice, removes worms, produces flesh, cures mange, canker and indigestion at a cost of 5 casts a beg a year.

The original sad only remedy for use on estisis and inside of hogs, which does the work without injury to the animal. At dealers or by express, prepaid, \$2.50 per gallon. Special prices in quantities.

Book—"Care of Bogs," Free. Address, MORE GHEMICAL CO., 1501 Genessee St., Kansas City, Mo.



THE AMERICAN ROYAL SWINE

Swipe breeders are rapidly arranging the details and premium lists for their participation in the American Royal next fail. A meeting of the executive commit-tee of the American Perkshire associa-

ave prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 12 months and under 18 months;

lve prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 6 months and under 12 months;

lve prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, under 6 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, varies or very five prizes of \$20, \$15, \$12, \$8 and \$5.

\$15, \$12, \$8 and \$5.

Sow 2 years or over; five prizes of \$20, \$15, \$12, \$8 and \$5.

Sow, 18 months and under 24 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Sow, 12 months and under 18 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Sow, 6 months and under 12 months;

Sow, 6 months and under 12 months; live pr zes of \$20, \$15, \$12, \$8 and \$5. Sow, under 6 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

\$15, \$12, \$8 and \$5.

Champion boar, over 12 months, \$25.

Champion boar, under 12 months, \$25.

Champion sow, over 12 months, \$25.

Champion sow, under 12 months, \$25.

Boar and three sows, over 12 months; \$25.

Boar and three sows, over 12 months; \$25.

Boar and three sows, under 12 months; \$25.

Boar and three sows, under 12 months; \$25.

Boar and fore of his get, any age; five prizes of \$25, \$20, \$15, \$10 and \$5.

Boar and four of his get, any age; five prizes of \$25, \$20, \$15, \$10 and \$5.

Bow and four of her produce, under 6 months; five prizes of \$25, \$20, \$15, \$10 and \$5.

or the first part of July. Diseased Animals Barred.—The breeders Diseased Animals Barred.—The breeders decided that hogs entered for the exhibition must be absolutely sound. Not only must they have no disease at the time, but it must be proven that they have not been exposed to disease. In order to enforce this ruling, a government inspector and several especially appointed persons will be detailed to examine every hog that comes into the tents. Those that are afficited or show any symptom of disease will be barred.

The two breeds will be sold and shown

The two breeds will be sold and shown alternately on the four days that are to be consumed by this exhibit. Entries will the Colore 6. All future arrangements or the show will be in the hands of H. M. Kirkpatrick and Frank Winn, of the Poand-Chinas, and Colonel C. F. Mills, C. A. Stannard and N. H. Gentry of the Berk-

SHEEP SHEARING

MACHINE

MACHIN

MACHINE

MACHINE

MACHINE

MACHINE

MACHINE

MACHINE

MACHIN

RUPTURE The Pig Pen "how to feed" should be asked as frequently, and the answers should be carequently, and the answers should be carefully considered and acted upon.—Theo.
Louis before Wis. Dairymen.

SWEET-CORN AND SORGHUM FOR HOGS.

As it is the time of year to make calculations for the spring crops, and what you are going to plant to feed next fall and winter, I wish to mention two that should go into the yearly calendar. One is sweetcorn and the other is sorghum. They are especially adapted to cows and hogs. young pigs; it gives them a start so they are in fine condition for the field-corn when it is more mature, says a corre-spondent in the "National Stockman."

some of the crop season is demonstrated, but it is probable that as much as \$2,000 multiple to the capture of \$20,000 multiple to the regular prises money as made yesterday follows:

Boar, 2 years old or over; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 18 months and under 24 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 12 months and under 18 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 6 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 12 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 6 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 6 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 13 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 6 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 13 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 14 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 15 months and under 15 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 16 months and under 18 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 17 months and under 18 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 19 months and under 19 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 19 months and under 10 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 10 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 10 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

Boar, 10 months and under 12 months; five prizes of \$20, \$15, \$12, \$8 and \$5.

and then you will have some for the cat-tle besides. I have been feeding from my acre more or less ever since I cut it and it is not half gone yet. Five pounds of seed will be required to plant an acre. I feed my broodsows two ears of corn a head with their sorghum night and morning, and I aever have had sows in such fine, healthy condition; their hair is as smooth as if they had been lately groomed. My neighbors see the difference and remark, "Your sows look so well." Of course they are pure-bred Poland-Ch'nas, and their hair is naturally smooth, but the sorghum puts the gloss on.

To cure the crop I had a large shed sixty feet long, to which I hauled and set it along the walls till it cured, then I stored it in one end; but had I no shed I would cut and shock like corn in the field till cured, then store in the barn. The eneis not half gone yet. Five pounds of seed

cured, then store in the barn. mies of the seed are mice, chickens and English sparrows; if you can keep them off you are all right. There is no waste in sorghum fodder, as the horses and cat-

SPRING DIPPING.

Stannard and N. H. Gentry of the Berkshires.

Those present at the meeting were the Hon. N. H. Gentry, of Sedalia, Mo.; president of the American Berkshire Association; Charles E. Sutton, of Russell, Kan., and Colonel Charles F. Mills, of Springfield, Ill., secretary of the American Berkshire Association, representing the Berkshire breeders, and H. M. Kirkpatrick, of Wolcott, Kan.; James Mains, of Oskaloosa, Kan.; J. D. Snyder, of Winfield, Kan.; F. M. Lail, of Marshall, Mo.; E. E. Azline, of Oak Grove, Mo., and Frank D. Winn, of Mast'n, Kan., representing the Poland-China interests. Mr. Kirkpatrick presided.

POINTS IN FEEDING.

HOW TO FEED MILK.—I have referred to the value of milk in pig raising, but in needs to be understood that milk must be properly fed if its possibilities are realized. There is no doubt in my mind that sweet and warm milk is best for pigs. If rold, sour milk were better I think nature would have provided such milk from the

# FREE=\$5,078.00 IN 2,999 PR

FOR ALL WHO CAN COUNT THE DOTS.

THE PRIZES AND CONDITIONS OF THE CONTEST

This contect and the awarding of the prizes will be conducted under the following conditions and subject to the following directions: The prizes will be awarded in the order named to be prizes and subject to the following directions: The prizes will be awarded in the order named to be prizes and the prizes will be awarded in the order named to be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following conditions and subject to the following directions: The prizes will be conducted under the following directions: The prizes will be conducted under the following directions: The prizes will be awarded in the order named to the prizes will be awarded in the order named to the prizes will be awarded in the order named to the prizes will be awarded in the prizes will be awarded in the order named to the prizes will be conducted under the following directions will be conducted under

Prize .. \$1,00

Second \$500.00 Prize ... \$500.00

Third Prize ... \$250.00

Fourth \$100.00

The Fifth to the 2.999th Prizes Will Aggregate Balance of the \$5,078.00.

If two or more counts are thed for one or move prizes, an equal division of the con-tested prizes will be made. All counts must be sent in by mail, but no counts will be registered bearing postmark of any diflow within the comporate limits of Min-neapasts or St. Peat.

DECESION OF COURT. A positive guarantsis is given that no person, directly or indirectly connected with The Tribusan, not even the Dot Editor, known the number of dots, nor will then be much be not because it is made. When the contest is made. When the contest is closed the docts will be counted by J. R. Colburn, of docts will be counted by J. R. Colburn, of the contest will furnish The Tribuse as affiliavit, when contilled by the judges of fidewish, when contilled by the judges of the contest, shall be conclusive on all parties as to the correct count. Mr. docts until after the centest, and no one can possibly knew the official count until these.

THE JUDGES.

The counting is prefectly free.

The mere counts you repleter the surer you are of winning one of the big free cash prizes, of the \$4,698.00 in gold.

Somebody is going to win the first prize, \$4,000. Accuracy in registering your count is all you require to win \$1,000, or the \$550, or the \$150, or any of the other \$1,000. This will be prize to the \$1,000. This will be prize to \$1,000. This will be area prizes.

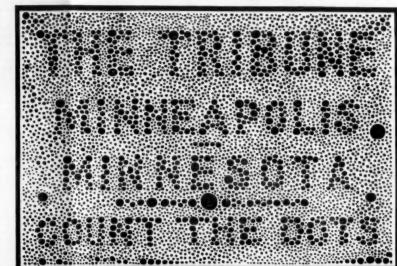
If you can count, win the first prize, \$1,000. This will be area prizes to \$1,000. This will be area prizes.

If you can count, win the first prize, \$1,000. The other dot contests believe and your farm, clear \$1,000 the past year? It will take only a little time and less tell do your farm, clear \$1,000 the past year? It will take only a little time and less tell believe to the children counting. A \$2-year-old girl won the \$150 in a former Tribune Dot Contest. Such contests sharpen the cye-sight and quickes the with. No other employment will pay as generously as successfully counting the data.

FILE BEST WAT TO WIX.

Say ten friends, including yourself, citile together, each sending in a count. One of you will possibly win the \$1,00. The prime can then be divided among the meaning of your citsh—winning \$100 for each of you. Each of you will have had been channes of winning any one of the \$1,000 prisse—or \$3,000 opportunities of get-ting a portion of the \$1,000 prisse or winning any one of the \$1,000 prisse or \$1,000 opportunities of get-ting a portion of the \$1,000 prisse outline \$1,000 prisse yourself, \$2,000 opportunities of get-ting prisse yourself, for yourself. You get the prisse yourself, for yourself. You get till he advantances of a ciulo of ten when you pay \$6.00 for five years' subscription and ten registered counts, giving you, yourself, \$9,500 chances of winning some of the \$6,000.00.

The count is absolutely free. Every delays of the \$6,000.00.



## FIRST NATIONAL BANK United States Depository.

JOHN MARTIN, President.
F. M. PRINCE, Vice-President.
C. T. JAPPARY, Cashier.
L. MACNERCHAE, Asst. Cashier.
EMBREY C. HEOWER, Asst. Cashier.
Frofits, \$200,000.

MINNEAPOLIS, MINN. April 22, 1902.

Received of the Minnesota Tribune Co., of Minneapolts, Minn., the sum of Five Thousand and Seventy-Eight Dollars, same to be paid to winners of prizes in THE TRIBUNE'S Great Dot Contest upon vouchers properly certified to by Robt. Pratt, J. F. R. Foss and Albert Dollenmayer, the judges of said contest.

FIRST NATIONAL BANK, \$5,078.00. (Copy) Per E. C. Brown, Assist. Cashier.

## The farmer's Twice - a - Week Cribune

Is the busy man's newspaper; all the latest news boiled down for ready reading, published Tuesdays and Fridays each week, 104 issues a year—less than a cent a copy. Each issue has a short story by one of the best writers and a part of a serial story, fashions and current illustrations, and, above all, the

Your Counts-These Conditions Must Be Complied With.

1. Write your count, name and address very plainly. If you are an old subscriber, write your name on your coupon lest as it is on the red tab on your 2. I have not supported to the red tab on your 2. Easy past what your count is without any "ifs" or "ande"—make it blain.
2. Be sure to state whether or not you.
3. De not weste your time and ours by asking questions and writing letters. They only hinder us and delay recording your count.

Winners in Our Other

Dot Contests.

\$250.00 was won by Carl ware store at Mothasy, \$75.00 was won by Mrs. Chas. Sprague, of Glenwood, \$75.00 was won by James Fanta, of Jackson. Berghuis, a farmer living seven miles from Clara City, in the western part of this state. \$250.00 was won by Chas. \$250.00 was won by Chas. \$250.00 was won by Chas. \$250.00 was won by L. J. Adgate, of Cylon, Wis. \$75.00 was won by L. J. Adgate, of Cylon, Wis. \$100.00 was won by the fid-year-old daught of the dots but once and did it correctly. \$100.00 was won by Mrs. E. N. Finn, Stillwater, was enabled the dots but once and did it correctly. \$100.00 was won by Mrs. E. N. Finn, Stillwater, was enabled the dots but once and did it correctly. \$100.00 was won by Mrs. E. N. Finn, Stillwater, was enabled the dots but once and did it correctly. \$100.00 was won by Mrs. E. N. Finn, Stillwater, with which her sor was enabled to the counted of the loss persons who received free cash prises from the Tribune through the

5. Counts and money must come together by mail. Telegrams are useless. Spress order, the property of the prope

and address of the person who is to get the paper.

S. Should you forget to send your remittance.

So your count, send the count again when you do send your remittance.

10. For extra counts, the total remittance must be sent at one time, together with the counts, in the same envelope. For instance, if you want ten registered counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at one time send \$6.00 and the ten counts at the permitted to enter this contest. The property of the send \$6.00 and \$6.00 and

## FILL OUT THIS COUPON CAREFULLY—It Must then be sent by Mail. For Every Dollar You Send in You are Credited With One Year's Subscription to the Farmers' Tribune,

AY \$1.00 AT ONE TIME for One Year's Subscription and get ONE
AY \$2.00 AT ONE TIME for AY \$3.00 AT ONE TIME for AY \$4.00 AT ONE TIME for AY \$5.00 AT ONE TIME for AY \$5.00 AT ONE TIME for 5 Years' Subscription and get SIX Registered Counts
AY \$5.00 AT ONE TIME for 5 Years' Subscription and get TEN Registered Counts
AY \$5.00 AT ONE TIME for 5 Years' Subscription and get TEN Registered Counts Dot Editor, Parmers' Tribune, Minneapolis, Minn. Enclosed find \$ ... tion to the Farmers' Tribune, also my counts on the \$5,078.00 Dot Puzzle. ...... State ..... Route ..... Route Arc. you now taking the farmers' Tribune...... flave you registered other counts in this contest......

(Yes or No)

(Yes or No) 

Address, DOT EDITOR, Farmers' Tribune, Minneapolis, Minn.

2

3

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Writes a regular subscriber, who has read it for many years, of the

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and this is the unanimous verdict of its more than half a million readers. It is BEYOND ALL
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THE SUBSCRIPTION PRICE of \$1.00 gives you two papers each week, 104 papers a year. It is printed every Monday and Thursday. Address all orders to

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## The Markets

switched this side, and Sic f. o. b. E. side; No. 3 red skd. at \$968904c on Levee; No. 2 hard at 77c for Iowa, and Turkey Sic; No. 2 mixed at 77c; No. 3 spring at 74½c. CORN-By sample, del: No. 2 and No. 3 at 86c this side and No. 3 65½c; No. 3 yel-low this side at 66½c, and No. 2 white yellow not salable above that; No. 2 white at 67c and No. 3 white at 68½667c E. side; on the ear at 64½c.

this side; light and chaffy white at 38c; no grade at 40c. RYE—No. 2 at 40c. BARLEY—Values at 60@68c. BARLEY—Values at 60@68c. FLAXSEED—No offerings; nominal. BRAN—100-1b. sks. at 83@89c and 92@89c in large; at mill 92@69c; ships at \$1. HAY—Timothy, \$15@15.50 for choice, \$14@15 for No. 1, \$12.50@13.50 for No. 2; clover mixed, \$12@10@10.50 for No. 2. Prairie—No. 1, \$13 and \$12@12.50 for No. 1; No. 2, \$10@11; clover, \$12 for No. 1, \$12@12.50 for No. 1; No. 2, \$10@11; clover, \$12 for No. 1, \$12@12.50 for No. 2; low grades, \$7@10.50; alfalfa, \$12.50@14.

STRAW-Wheat, \$4.50; oat, \$6; rye, \$5;

PRICES ON 'CHANGE. The following table shows the range of prices on future and cash grains:

Closed Ranged Closed

|       | Saturday. Yesterday. Yesterday. |      |              |         |   |
|-------|---------------------------------|------|--------------|---------|---|
| Whe   | at-                             |      |              |         | ı |
| May   | 801/2                           | b    | 791/4@79%    | 791/4   | ŀ |
| July  | 75                              | a    | 73%@75       | 73% D   | ľ |
| Corn- |                                 |      |              |         | 1 |
| May   | 64                              | a    | 64%@64%      | 63% a   | 1 |
| July  |                                 | 8.   | 53%@64%      | 63% a   | ľ |
| Bept  | 621/4                           | b    | 621/4@62%    | 621/4 b |   |
| Oats- |                                 |      |              |         | 1 |
| May   | 421/4                           | a.   | 4314@44      | 431/4 b | 1 |
| July  | 34%                             |      |              | 34% a.  | 1 |
| Conh  | wheat                           | corn | and oats rar | nged:   | l |

less than cured; culls, 34c; horse

FEATHERS-Prime live white geese, in FEATHERS—Prime live white geese, in small sacks, 47c, and in large sacks, 45c; prime gray do, 35c in small and 33c in large sacks; oid white, 356/37c; x, 256/39c; xxx, 166/20c; xxx, 162/20c; xxx, 16

and pointers, 5c; body, 2c.

FURS—Quite a large sale of fine northern goods yesterday, but only a few skins offered otherwise, and they were poor; market quiet on basis of following quotations: Raccoon at 10c to 80c; mink at 16c to 80c; civet cat, 15c to 25c; badger, 5c to to 25c; civet cat, 15c to 25c; badger, 5c to to 25c; house cat, 10c; miskrat \$60c; house. se cat, 10c; muskrat, 8@10c; bear, 25c; house cat, 10c; muskrat, squot; obai, \$1 to \$12; beaver, \$1 to \$6; opossum, 10c to 35c; red fox, 15c to \$1.50; gray fox, 10c to 80c; otter, \$1.50 to \$8.50; prairie wolf, 30c to \$1; timber wolf, 60c to \$1.50. Northern EGGS—Received, 2,559 packages local

and 3,054 packages through. Steady at 15c, though a couple 25-case lots brought 15% on 'change. Southern from 14c to 14% of Goose eggs, 25c; duck eggs, 15c. impossible. BUTTER-Accurate prices

BUTTER-Accurate prices impossible. Strictly choice creamery could have been bought at 22c, and all other grades in ratio, but buyers are still standing out for market, awaiting prices to reach what they think will be bedrock. Consewhat they think will be bedrock. Consequently trading is very light, while stocks are showing some accumulation. Asking

for lots: nery: Extra, 22c; firsts, 20c; sec-Sc. Ladie-packed: Extra, 19c; firsts, Dairy: Extra, 18@0c; firsts, 16@ ountry: Roll, choice, well handled, poor to good, 13c; packed, choice,

WRS. Has been used for over sixty years by millions of mothers for their WINSLOW'S children while teeth SOOTHING cess. It soothes the child.

Horse quotations: Heavy draft—Common to good, \$120@159; choice to extra, \$1000THING cess. It soothes the children wind colle, and is the best remedy for discretions. SOUTHING and is the best remedy for discretion. Sold by Drugstis in every part sooth world. Be sure and ask of the remedy for discretions and colse—Fair to good, \$1400 for the collection of the collection of the south—Small, light drivers, fair to contract the collection of the c

LIVE STOCK

HORSES—The week in the horse market was opened in weaker and lower condition. Private advices from the East to all to most classes, and the news had a symmathetic effect here. The East has had very cold and unseasonable weather lately, which has retarded purchasing operations, with the result that supplies have accumulated faster than an outlet could be made for them with the consequence of the decline quoted. Such information naturally had a dampening effect upon the local movement, and buyers held off and bid more reservedly than usual, generally neeking a decline commensurate with the break in the East, but it was not forthcoming in that full a measure. The averlaging fool to 1,320 pounds, sold at a full range of \$3.0026.15, most of them completely than usual, generally neeking a decline commensurate with the break in the East, but it was not forthcoming in that full a measure. The averlaging fool to 1,320 pounds, sold at a full range of \$3.0026.55, bulls \$2.5026.65 and bid more reservedly than usual, generally seeking a decline commensurate with the break in the East, but it was not forthcoming in that full a measure. The averlaging fool to 1,320 pounds, sold at a full range of \$3.0026.55, bulls \$2.5026.65 and oxen \$4.0026.55, bulls \$2.5026.55 atags and oxen \$4.0026.55, bulls \$2.5026.55 atags and oxen \$4.0026.55, bulls \$2.5026.65 and oxen \$4.0026.55, bulls \$2.5026.55 atags and oxen \$4.0026.55, bulls \$2.5026.55 atag

The state of the s wery few on the market. Choice native cows solid at \$3.0076.00 and good heifers sell at \$4.0076.00 and

Cooper Co., Mo.

The foregoing article is suggestive and should encourage others who have not tried to raise cowpeas to do so, and not simply as a catch crop. Remember what has been said as to the scarcity of cowpea seed, and send in your order for a supply at once. Advertisements of reliable seedsmen will be found in our colbe

## KING CORN.

Although much has been written rela-Although much has been written relative to the peculiar virtues of corn, in a general way it must be said that the commercial importance of the great king of cereals has been accorded very slow recognition. In the United States corn is the king of cereals, both in acreage and value of production. More than \$0,000,000 of acres are annually planted in corn, and a noror production. More than 30,000,000 or acres are annually planted in corn, and a nor-mal yield amounts to considerably more than 2,000,000,000 bushels, which represent only one-half the value of the great crop





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For it cures the most diffi-cult cases of Rheumatism-after every other form of treatment has failed.

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## B. HAMMOND,

PETTIS COUNTY NOTES.

Not since 1875 have conditions been more favorable for field work nor the soil more mellow. Last year's drouth, followed by deep freezing, fixed the soil, and fair weather for the past six weeks did the rest. It is rather too dry for newly sown

grasses, oats, pastures and meadows.
Seventy-five to ninety per cent of the corn is planted, and on the best prepared land the writer ever saw—yet we have not seen a single hill of field corn above ground. There has been some lack of moisture for quick germination and entirely too much cool weather. Except very early planting we get good reports of the corn sprouting. With warmer days we shall soon see our vast acreage of corn greening the fields. To-day we finl hed planting 75 acres which, by referring to our journal for 1901, we see we had only commenced to plant on this date. With favorable weather May ist will find nearly all our corn planted in this county.

April 25, 1992. W. D. WADE.

MISSOURI WEATHER AND CROPS.

The United States Department of Agri-culture Climate and Crop Bulletin of the Weather Bureau, Missouri section, for the week ending April 28, 1902, is as fol-

Any child can count dots, but not many people can count a large number of them without mistakes. This is the basis of the Farmers' Tribune Dot Contest, which is announced in this issue of the RURAL. WORLD. The counting is abositutely free. The paper is one of the oldest and best in the Northwest, published twice a week, and it costs only one dollar a year, so that considering the price it is very low. There are hundreds of people who are enjoying the fun of counting the dots, and those who count the number correctly are those who count the number correctly are which \$5,078.00 is to be divided. Any child can count dots, but not many

SEXIAP INFO. AND METAL—Per 120

SEXIAP INFO. AND METAL—Per 120 and other Western states too hard to be stirred with a mould-board plow, stimu-lated the manufacturers of disc plows to begin a campaign of advertising in a field begin a campaign of advertising in a field hitherto unworked, except in an indiffer-ent manner. Extensive advertising among the farmers (by the Hapgood Plow Co.) has helped to create the demand, and the result is that jobbers and manufacturers of disc plows are receiving orders from Kansas and the Indian and Oklahoma territories in such volume as they never dreamed of.

dreamed of.

The disc plow is to be a very conspicuous factor in the future trade of the implement dealer, for it must be remembered the disc drill, the disc harrow and the disc cultivator, which have become popular with the farmers and give evidence of remaining so, were a long time proving that their had, care to see the control of e of remaining so, were a long time ing that they had come to stay.



GEM FULL CIRCLE STEEL HAY PRESSES. Agents Wanted in Unoccupied Territor WM. KOENIG & CO., 124 S. Elghin St. Louis, No.



## 10,000 MEN WANTED

TO PURCHASE 160 ACRES AND SECURE ADJOINING LAND UNDER HOMESTEAD ACT

ree Livery to show lands. Transportation refunded to purchasers. HACKNEY-BOYNTON LAND CO. 603-611 Germania Life Bldg., ST. PAUL, MINN.

DUROC JERSEYS; 76 Cherry Bed Pigs, early farrow, large and growthy. Prices, sight. E. M. SNODDY, Armstrong, Mo., Howard Co.

B, P. ROCKS Exclusively for 19 years, stock pure and bred from the best strains.

Eggs \$1.25 for 16. \$2.00 for 30.

MRS. M. A. COTPEY, Knox City, Mo.



\$21.00 TO NEW YORK STOP-OVER at WASHINGTON



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We believe Fairbanks, Morse & Co. have a great "winner" in that little "Jack of all Trades" that they advertise in this issue. It is a simple little gasoline engine, and the different lines of work to which it can be put on the farm are set forth in the advertisement. We advise our readers to investigate this newest power for farm work.

INDIAN TERRITORY MELONS INDIAN TERRITORY MELONS.—
Many farmers near Tulsa, I. T., have
formed a meion growers' association, and
will plant a thousand acres of cantaloupes
and several hundred acres of meions. A
Chicago commission house has arranged
to send a buyer there in the shipping season. This is a new industry there, but
expermients last year proved that cantaloupes do well and are two weeks earlier
than the Colorado meions.